

BRAIN RESEARCH

INTERNATIONAL MULTIDISCIPLINARY JOURNAL
DEVOTED TO FUNDAMENTAL RESEARCH IN THE
BRAIN SCIENCES

CUMULATIVE AUTHOR AND SUBJECT INDEXES

Volumes 388; 400-426; 428-437; 465 (1987)

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INTRODUCTION

The 1987 Cumulative Author and Subject Index comprises eight separate indexes: the Author and Subject Indexes of **Brain Research**, **Molecular Brain Research**, **Developmental Brain Research** and **Brain Research Reviews**. Please note that in 1987 **Brain Research** was published according to a volume-numbering scheme that embraced all sections of the journal. Each of the sections also had its own volume numbering, according to the system below. The latter numbering has been used in the present indexes.

BRAIN RESEARCH (1987) Volumes 388; 400–426; 428–437; 465			
Vols. 400–426; 435–437	Volume 388	Vols. 428–433; 465	Volume 434
Brain Research	Molecular Brain Research Volume 2	Developmental Brain Research Volumes 31-37	Brain Research Reviews Volume 12

Please note that the above schedule differs slightly from the 1987 publication schedule: **Brain Research** Volumes 397–399 were published in advance in 1986 and were indexed in the 1986 index; **Brain Research** Volumes 435–437 belong to the 1988 subscription year but were published in advance in 1987. They are indexed in the present index. **Brain Research** Volume 388 (**Molecular Brain Research** Volume 2) belongs to the 1986 subscription but was published in 1987, and is indexed in the present index. **Brain Research** Volume 465 (**Developmental Brain Research** Volume 37) belongs to the 1988 subscription year but was published in advance in 1987. It is indexed in the present index.

Readers should note that American spelling is used throughout the Subject Indexes.

The Editor and Publisher welcome any comments on the usefulness of this index, as well as suggestions for improvements.

AUTHOR AND SUBJECT INDEXES

CONTENTS

Introduction	v
Brain Research Author Index (Vols. 400-426, 435-437 - 1987)	1
Brain Research Subject Index (Vols. 400-426, 435-437 - 1987)	75
Developmental Brain Research Author Index (Vols. 428-433; 465 (31-37) - 1987)	279
Developmental Brain Research Subject Index (Vols. 428-433; 465 (31-37) - 1987)	293
Brain Research Reviews Author Index (Vol. 434 (12) - 1987)	325
Brain Research Reviews Subject Index (Vol. 434 (12) - 1987)	329
Molecular Brain Research Author Index (Vol. 388 (2) - 1987)	335
Molecular Brain Research Subject Index (Vol. 388 (2) - 1987)	341

BRAIN RESEARCH
AUTHOR INDEX
1987
VOLUMES 400-426, 435-437

A

- Abe, K. and Kogure, K.
Recovery from calcium-induced damage in a neuroblastoma cell line, **423**, 221
- Abe, K., see Tamamaki, N., **412**, 156
- Abhold, R., see Kalivas, P.W., **414**, 339
- Abhold, R.H., see Imboden, H., **426**, 225
- Ableitner, A. and Herz, A.
Influence of meprobamate and phenobarbital upon local cerebral glucose utilization: parallelism with effects of the anxiolytic diazepam, **403**, 82
- Abood, M.E., Lee, N.M. and Loh, H.H.
Modification of opioid agonist binding by pertussis toxin, **417**, 70
- Abraham, W.C., see Kairiss, E.W., **401**, 87
- Abramsky, O., see Fishman, R.H.B., **410**, 343
- Abshire, V.M., see DiMicco, J.A., **402**, 1
- Aburada, M., see Sugaya, E., **406**, 270
- Ache, B.W., see Derby, C.D., **421**, 57
- Acker, H. and Eyzaguirre, C.
Light absorbance changes in the mouse carotid body during hypoxia and cyanide poisoning, **409**, 380
- Acosta, L., see Pohle, W., **410**, 245
- Adam-Vizi, V., Banay-Schwartz, M., Wajda, I. and Lajtha, A.
Depolarization of brain cortex slices and synaptosomes by lithium.
Determination of K⁺-equilibrium potential in cortex slices, **410**, 257
- Adams, P., see Satin, L., **401**, 331
- Adams, I.
Plasticity of the synaptic contact zone following loss of synapses in the cerebral cortex of aging humans, **424**, 343
- Adams, J.C., Mroz, E.A. and Sewell, W.F.
A possible neurotransmitter role for CGRP in a hair-cell sensory organ, **419**, 347
- Adams, R.N., see Moghaddam, B., **406**, 337
- Adrien, J., see Davenne, D., **409**, 1
- Advokat, C., see Siuciak, J.A., **424**, 311
- Aebischer, P., Valentini, R.F., Dario, P., Domenici, C. and Galletti, P.M.
Piezoelectric guidance channels enhance regeneration in the mouse sciatic nerve after axotomy, **436**, 165
- Affolter, H.-U., see Chesselet, M.-F., **410**, 83
- Agee, J.F., see Sprinkle, T.J., **426**, 349
- Aghajanian, G.K., see Innis, R.B., **411**, 139
- Aghajanian, G.K., see Kehne, J.H., **406**, 87
- Aghajanian, G.K., see Wang, Y.-Y., **436**, 396
- Agid, Y., see Delay-Goyet, P., **414**, 8
- Agid, Y., see Taquet, H., **411**, 178
- Agnati, L.F., see Pich, E.M., **435**, 147
- Aguayo, A.J., see Doering, L.C., **401**, 178
- Aguayo, A.J., see Thanos, S., **406**, 317
- Aguayo, L.G. and Albuquerque, E.X.
Phencyclidine blocks two potassium currents in spinal neurons in cell culture, **436**, 9
- Aguila, M.C., Khorram, O. and McCann, S.M.
 α -Melanocyte stimulating hormone discloses a stimulatory effect of β -endorphin on somatostatin release, **417**, 127
- Aguilar-Roblero, R., see Arankowsky-Sandoval, G., **400**, 155
- Aguilar-Roblero, R., see Bermúdez-Rattoni, F., **416**, 147
- Aguilar-Roblero, R., see García-Hernández, F., **418**, 193
- Aguilera, P., see Olmos, G., **425**, 57
- Ahdieh, H.B., see Bonneau, M., **413**, 104
- Ahlenius, S., Hillegaart, V., Thorell, G., Magnusson, O. and Fowler, C.J.
Suppression of exploratory locomotor activity and increase in dopamine turnover following the local application of *cis*-flupenthixol into limbic projection areas of the rat striatum, **402**, 131
- Ahmad, G., Halsall, L.C. and Bondy, S.C.
Persistence of phencyclidine in fetal brain, **415**, 194
- Ahokas, R.A., see Shoham, S., **419**, 223
- Aihara, H., see Kamata, K., **421**, 353
- Aihara, T., see Iwai, E., **410**, 121
- Aikawa, E., see Kawano, J.-I., **409**, 391
- Aiko, Y., Shima, F., Hosokawa, S., Kato, M. and Kitamura, K.
Altered local cerebral glucose utilization induced by electrical stimulations of the thalamic sensory and parafascicular nuclei in rats, **408**, 47
- Aimone, L.D. and Gebhart, G.F.
Spinal monoamine mediation of stimulation-produced antinociception from the lateral hypothalamus, **403**, 290
- Aimone, L.D., see Randich, A., **411**, 236
- Aiso, M., Potter, W.Z. and Saavedra, J.M.
Axonal transport of dopamine D₁ receptors in the rat brain, **426**, 392
- Aiso, M., Shigematsu, K., Keabian, J.W., Potter, W.Z., Cruciani, R.A. and Saavedra, J.M.
Dopamine D₁ receptor in rat brain: a quantitative autoradiographic study with ¹²⁵I-SCH 23982, **408**, 281
- Aitken, P.G., see Jaffe, D.B., **415**, 197
- Aizenman, Y. and De Vellis, J.
Brain neurons develop in a serum and glial free environment: effects of transferrin, insulin, insulin-like growth factor-I and thyroid hormone on neuronal survival, growth and differentiation, **406**, 32
- Aizenman, Y. and De Vellis, J.
Synergistic action of thyroid hormone, insulin and hydrocortisone on astrocyte differentiation, **414**, 301
- Akagawa, K. and Barnstable, C.J.
Identification and characterisation of cell types accumulating GABA in rat retinal cultures using cell type specific monoclonal antibodies, **408**, 154
- Akagawa, K., Hicks, D. and Barnstable, C.J.
Histiotypic organization and cell differentiation in rat retinal reaggregate cultures, **437**, 298
- Akaike, N., see Inoue, M., **404**, 301
- Akaike, N., see Nagaoka, R., **410**, 283
- Akaike, N., see Oyama, Y., **417**, 143
- Akaike, N., see Oyama, Y., **424**, 58
- Akaike, A., Ohno, Y., Sasa, M. and Takaori, S.
Excitatory and inhibitory effects of dopamine on neuronal activity of the caudate nucleus neurons in vitro, **418**, 262
- Akaike, T.
Electrophysiological analysis of the tecto-olivo-cerebellar (lobulus simplex) projection in the rat, **417**, 371
- Akaishi, T., see Sakuma, Y., **407**, 401
- Akasu, T., see Ariyoshi, M., **435**, 241
- Akasu, T. and Koketsu, K.
Evidence for epinephrine-induced depolarization in neurons of bullfrog sympathetic ganglia, **405**, 375
- Akema, T., see Kimura, F., **410**, 315
- Akhtar, N.D., see Land, P.W., **425**, 178
- Akil, H., see Lewis, J.W., **424**, 65
- Akita, K., see Maruyama, M., **401**, 14
- Akiyama, K., see Sutoo, D., **418**, 205
- Alafuzoff, I., see Marcusson, J.O., **425**, 137
- Alavi, A., see Kushner, M.J., **409**, 79
- Albeck, D., see Cach, R.L., **421**, 370
- Albers, H.E., Minamitani, N., Stopa, E. and Ferris, C.F.
Light selectively alters vasoactive intestinal peptide and peptide histidine isoleucine immunoreactivity within the rat suprachiasmatic nucleus, **437**, 189
- Albertson, T.E. and Joy, R.M.
Increased inhibition in dentate gyrus granule cells following exposure to GABA-uptake blockers, **435**, 283
- Albuquerque, E.X., see Aguayo, L.G., **436**, 9
- Albuquerque, E.X., see Allen, C.N., **410**, 159
- Albus, K.
A neuronal subsystem in the cat's area 18 lacks retinotopy, **410**, 199
- Alford, S. and Williams, T.L.
Inhibitory synaptic input to edge

- cells during fictive locomotion, **409**, 139
- Algeri, S., see De Simoni, M.G., **411**, 81
- Algeri, S., see De Simoni, M.G., **411**, 89
- Alho, H., see Nicoletti, F., **436**, 103
- Ali, S.F., see Scallet, A.C., **436**, 193
- Allard, L.R., see Gysling, K., **413**, 365
- Allen, A.M., see McKinley, M.J., **420**, 375
- Allen, C.N. and Albuquerque, E.X. Conductance properties of GABA-activated chloride currents recorded from cultured hippocampal neurons, **410**, 159
- Allen, D.L., see Frankfurt, M., **419**, 216
- Allen, E.E., Blakemore, L.J., Trombley, P.Q. and Gordon, B. Effect of desmethylimipramine on norepinephrine content and plasticity of kitten visual cortex, **401**, 397
- Allen, J.M., see Brooks, P.A., **408**, 295
- Allen, R., see Brown, M., **400**, 35
- Allt, G., Blanchard, C.E. and Sikri, K. Distribution of filipin-sterol complexes in the unmyelinated nerve fibre, **416**, 166
- Alonso, A., Gaztelu, J.M., Buño Jr., W. and García-Austt, E. Cross-correlation analysis of septohippocampal neurons during θ -rhythm, **413**, 135
- Alonso, T., see Rodríguez del Castillo, A., **416**, 113
- Aloyo, V.J., see Navarro, H.A., **421**, 291
- Aloyo, V.J., see Steisslinger, H.W., **415**, 375
- Alstermark, B., Lundberg, A., Pinter, M. and Sasaki, S. Long C₃-C₅ propriospinal neurones in the cat, **404**, 382
- Alstermark, B., Lundberg, A., Pinter, M. and Sasaki, S. Subpopulations and functions of long C₃-C₅ propriospinal neurones, **404**, 395
- Alstermark, B., Lundberg, A., Pinter, M. and Sasaki, S. Vestibular effects in long C₃-C₅ propriospinal neurones, **404**, 389
- Altar, C.A. and Hauser, K. Topography of substantia nigra innervation by D₁ receptor-containing striatal neurons, **410**, 1
- Altes, U., see Racké, K., **436**, 371
- Althaus, J.S., see Hall, E.D., **435**, 174
- Altrup, U. Inputs and outputs of giant neurons B1 and B2 in the buccal ganglia of *Helix pomatia*: an electrophysiological and morphological study, **414**, 271
- Amador, A.G., see Fernandez-Ruiz, J.J., **421**, 65
- Amato, G., see Piazza, P.V., **413**, 356
- Amenta, F., see Napoleone, P., **423**, 109
- Amir, S. and Shechter, Y. Centrally mediated hypoglycemic effect of insulin: apparent involvement of specific insulin receptors, **418**, 152
- Amir, S., Harel, M. and Rivkind, A.I. Thyrotropin-releasing hormone potentially reverses epinephrine-stimulated hyperglycemia in mice, **435**, 112
- Amir, S., Meyerovitch, J. and Shechter, Y. Vanadate ions: central nervous system action on glucoregulation, **419**, 392
- Amyx, H.L., see Gourmelon, P., **411**, 391
- Anderson, C.D., see Langlais, P.J., **421**, 140
- Anderson, C.M., see Kilts, C.D., **416**, 402
- Anderson, E.G., see Buzsáki, G., **435**, 331
- Anderson, K.J., Borja, M.A., Cotman, C.W., Moffett, J.R., Namboodiri, M.A.A. and Neale, J.H. N-Acetylaspartylglutamate identified in the rat retinal ganglion cells and their projections in the brain, **411**, 172
- Anderson, W.W., see Swartzwelder, H.S., **410**, 362
- Ando, S., Kametani, H., Osada, H., Iwamoto, M. and Kimura, N. Delayed memory dysfunction by transient hypoxia, and its prevention with forskolin, **405**, 371
- Ando-Yamamoto, M., Kiyama, H., Hayashi, H., Fukui, H., Tohyama, M., Watanabe, T. and Wada, H. Demonstration of histaminergic neurons in horizontal cells of guinea pig retina, **410**, 269
- Andrews, A., see Scallet, A.C., **436**, 193
- Angaut-Petit, D., see Molgo, J., **410**, 385
- Aniksztejn, L., Charton, G. and Ben-Ari, Y. Selective release of endogenous zinc from the hippocampal mossy fibers in situ, **404**, 58
- Anisman, H., see Zacharko, R.M., **426**, 164
- Anselmetti, G.C., see Panzica, G.C., **416**, 59
- Anthony, E.L.P., see Bruhn, T.O., **424**, 290
- Anthony, E.L.P., Wu, P., Bruhn, T.O. and Jackson, I.M.D. Characterization of LH-RH immunoreactivity in mammalian pituitary neural lobe by HPLC, **424**, 258
- Anticich, T.G., see Baumeister, A.A., **411**, 183
- Antoni, F.A., see Kiss, A., **416**, 129
- Antonian, E., Perry, G.W. and Grafstein, B. Fast axonally transported proteins in regenerating goldfish optic nerve: effect of abolishing electrophysiological activity with TTX, **400**, 403
- Antonini, A., see Minciacchi, D., **410**, 21
- Anwyl, R., see Lee, W.-L., **426**, 250
- Anwyl, R., Walshe, J. and Rowan, M. Electroconvulsive treatment reduces long-term potentiation in rat hippocampus, **435**, 377
- Aoki, C., Joh, T.H. and Pickel, V.M. Ultrastructural localization of β -adrenergic receptor-like immunoreactivity in the cortex and neostriatum of rat brain, **437**, 264
- Aoki, C., see Pavlides, C., **423**, 399
- Aou, S., see Hirano, T., **400**, 171
- Aou, S., see Nishino, H., **405**, 56
- Apostolides, P.J., see Finklestein, S.P., **413**, 267
- Appel, N.M., Wessendorf, M.W. and Elde, R.P. Thyrotropin-releasing hormone in spinal cord: coexistence with serotonin and with substance P in fibers and terminals apposing identified preganglionic sympathetic neurons, **415**, 137
- Appel, S.H., see Bostwick, J.R., **422**, 92
- Applegate, C.D., Konkol, R.J. and Burchfiel, J.L. Kindling antagonism: a role for hindbrain norepinephrine in the development of site suppression following concurrent, alternate stimulation, **407**, 212
- Applegate, M.D., Kerr, D.S. and Landfield, P.W. Redistribution of synaptic vesicles during long-term potentiation in the hippocampus, **401**, 401
- Arai, Y., see Miyakawa, M., **436**, 184
- Arai, H., Emson, P.C., Mountjoy, C.Q., Carasso, L.H. and Heizmann, C.W. Loss of parvalbumin-immunoreactive neurones from cortex in Alzheimer-type dementia, **418**, 164
- Arankowsky-Sandoval, G., Aguilar-Roblero, R., Prospéro-García, O. and Drucker-Colín, R. Rapid eye movement (REM) sleep and ponto-geniculo-occipital (PGO) spike density are increased by somatic stimulation, **400**, 155
- Aravich, P.F., see Silverman, W.F., **412**, 375
- Arends, J.J.A., see Wild, J.M., **407**, 191
- Arezzo, J.C., Tenke, C.E. and Vaughan Jr., H.G. Movement-related potentials within the hippocampal formation of the monkey, **401**, 79
- Argiolas, A., Melis, M.R., Mauri, A. and Gessa, G.L. Paraventricular nucleus lesion

- prevents yawning and penile erection induced by apomorphine and oxytocin but not by ACTH in rats, **421**, 349
- Argiolas, A., see Melis, M.R., **415**, 98
- Ariano, M.A. and Kenny, S.L. Neurochemical differences in the superior cervical ganglion of the spontaneously hypertensive rat stroke-prone variant, **415**, 115
- Ariano, M.A. Comparison of dopamine binding sites in the rat superior cervical ganglion and caudate nucleus, **421**, 245
- Arissian, K., see Ichikawa, M., **437**, 131
- Arita, H., Kogo, N. and Koshiya, N. Morphological and physiological properties of caudal medullary expiratory neurons of the cat, **401**, 258
- Arita, J., see Kimura, F., **410**, 315
- Ariyoshi, M. and Akasu, T. Voltage-clamp studies of the inhibition of γ -aminobutyric acid response by glucocorticoids in bullfrog primary afferent neurons, **435**, 241
- Arkin, M.S. and Miller, R.F. Subtle actions of 2-amino-4-phosphonobutyrate (APB) on the Off pathway in the mudpuppy retina, **426**, 142
- Armario, A., Garcia-Marquez, C. and Jolin, T. The effects of chronic stress on corticosterone, GH and TSH response to morphine administration, **401**, 200
- Armstrong, R., Toews, A.D. and Morell, P. Axonal transport through nodes of Ranvier, **412**, 196
- Arnerić, S.P., Iadecola, C., Underwood, M.D. and Reis, D.J. Local cholinergic mechanisms participate in the increase in cortical cerebral blood flow elicited by electrical stimulation of the fastigial nucleus in rat, **411**, 212
- Arnold, A.P., see Jacobson, C.D., **414**, 349
- Aronsson, M., see Pich, E.M., **435**, 147
- Arora, P.K., see Morandi, A., **437**, 69
- Arriagada, J., see Inestrosa, N.C., **416**, 248
- Artalejo, C.R., see Fonteriz, R.I., **408**, 359
- Asano, M., see Sakaguchi, H., **410**, 380
- Asanuma, H., see Bornschlegl, M., **437**, 121
- Asanuma, H., see Ichikawa, M., **437**, 131
- Asanuma, H., see Porter, L.L., **436**, 136
- Asanuma, H., see Sakamoto, T., **413**, 360
- Aschner, M., Rodier, P.M. and Finkelstein, J.N. Increased axonal transport in the rat optic system after systemic exposure to methylmercury: differential effects in local vs systemic exposure conditions, **401**, 132
- Asou, H., see Sugaya, E., **406**, 270
- Assumel-Lurdin, C., see Hamel, E., **420**, 391
- Astic, L., Saucier, D. and Holley, A. Topographical relationships between olfactory receptor cells and glomerular foci in the rat olfactory bulb, **424**, 144
- Aston-Jones, G., see Ennis, M., **425**, 275
- Atchison, W.D. and O'Leary, S.M. BAY K 8644 increases release of acetylcholine at the murine neuromuscular junction, **419**, 315
- Atsumi, S. and Sakamoto, H. Enkephalin-like immunoreactive axon terminals make synapses with α -motoneurons in the chicken, **409**, 187
- Audinat, E., see Penit-Soria, J., **425**, 263
- Augustine, J.R. Immunocytochemical staining of GABA in the insular lobe of the savanna baboon: a light microscopic study, **424**, 352
- Ault, B., Olney, M.A., Joyner, J.L., Boyer, C.E., Notrica, M.A., Soroko, F.E. and Wang, C.M. Pro-convulsant actions of theophylline and caffeine in the hippocampus: implications for the management of temporal lobe epilepsy, **426**, 93
- Autilio-Gambetti, L., see Pappolla, M., **424**, 272
- Autilio-Gambetti, L., see Perry, G., **420**, 233
- Avendaño, C., see Martínez-Moreno, E., **407**, 17
- Averill, D.B., Diz, D.I., Barnes, K.L. and Ferrario, C.M. Pressor responses of angiotensin II microinjected into the dorsomedial medulla of the dog, **414**, 294
- Avoli, M. and Perreault, P. A GABAergic depolarizing potential in the hippocampus disclosed by the convulsant 4-aminopyridine, **400**, 191
- Avoli, M., Louvel, J., Pumain, R. and Olivier, A. Seizure-like discharges induced by lowering $[Mg^{2+}]_o$ in the human epileptogenic neocortex maintained in vitro, **417**, 199
- Avoli, M., see Giaretta, D., **405**, 68
- Axt, K.J., see Commins, D.L., **403**, 7
- Axt, K.J., see Commins, D.L., **419**, 253
- Ayers, J., see Currie, S.N., **415**, 337
- Ayoub, G.S., see Malenka, R.C., **403**, 198
- Azzaroni, A., see Parmeggiani, P.L., **415**, 79
- Baas, P.W., Sinclair, G.I. and Heidemann, S.R. Role of microtubules in the cytoplasmic compartmentation of neurons, **420**, 73
- Baba, S., see Inui, A., **417**, 355
- Baba, H., see Ono, K., **435**, 84
- Babalian, A.L. and Chmykhova, N.M. Morphophysiological characteristics of connexions between single ventrolateral tract fibres and individual motoneurons in the frog spinal cord, **407**, 394
- Babu, G.N., Marco, J., Bona-Gallo, A. and Gallo, R.V. Steroid-independent endogenous opioid peptide suppression of pulsatile luteinizing hormone release between estrus and diestrus 1 in the rat estrous cycle, **416**, 235
- Bachoo, M., Ciriello, J. and Polosa, C. Effect of preganglionic stimulation on neuropeptide-like immunoreactivity in the stellate ganglion of the cat, **400**, 377
- Backus, K.H., see Kettenmann, H., **404**, 1
- Bäckström, I.T. and Marcusson, J.O. 5-Hydroxytryptamine-sensitive $[^3H]$ imipramine binding of protein nature in the human brain. I. Characteristics, **425**, 128
- Bäckström, I.T., see Marcusson, J.O., **425**, 137
- Badillo, S., see Calvo, J.M., **403**, 22
- Badoer, E., see Head, G.A., **412**, 18
- Badoer, E., see Korner, P.I., **435**, 258
- Baghdoyan, H.A., Rodrigo-Angulo, M.L., McCarley, R.W. and Hobson, J.A. A neuroanatomical gradient in the pontine tegmentum for the cholinceptive induction of desynchronized sleep signs, **414**, 245
- Bagust, J. and Kerkut, G.A. Crossed reflex activity in an entire, isolated, spinal cord preparation taken from juvenile rodents, **411**, 397
- Baile, C.A., see Miceli, M.O., **402**, 318
- Bailey, R.P., see Ebbesson, S.O.E., **405**, 175
- Bailey, W.H., see Pavlides, C., **423**, 399
- Baird, J.L., see Carlson, J.N., **400**, 200
- Baisden, R.H., see Woodruff, M.L., **408**, 97
- Bak, T.H., see Carr, K.D., **422**, 384
- Baker, D.G., see Mitchell, R.A., **437**, 157
- Baker, H.J., see Koenig, M.L., **424**, 169
- Baker, J., Wickland, C. and Peterson, B. Dependence of cat vestibulo-ocular reflex direction adaptation on

- animal orientation during adaptation and rotation in darkness, **408**, 339
- Baker, L.L. and Chandler, S.H. Characterization of hindlimb motoneuron membrane properties in acute and chronic spinal cats, **420**, 333
- Baker, L.L. and Chandler, S.H. Characterization of postsynaptic potentials evoked by sural nerve stimulation in hindlimb motoneurons from acute and chronic spinal cats, **420**, 340
- Balaban, C.D., see Dundore, R.L., **401**, 122
- Balaban, P.M., Vehovszky, A., Maximova, O.A. and Zakharov, I.S. Effect of 5,7-dihydroxytryptamine on the food-aversive conditioning in the snail *Helix lucorum* L, **404**, 201
- Baldessarini, R.J., see Campbell, A., **403**, 393
- Baldino Jr., F., see Blumstein, L.K., **404**, 293
- Baldrighi, G., see Lewis, J.W., **424**, 65
- Baldwin, B.A., see Thornton, S.N., **410**, 401
- Ball, M.J., see Doucette, R., **422**, 357
- Bals-Kubik, R., see Shippenberg, T.S., **436**, 234
- Balthazart, J., see Deviche, P., **421**, 105
- Balthazart, J., see Panzica, G.C., **416**, 59
- Balthazart, J., see Schumacher, M., **422**, 137
- Ban, T., see Usami, K., **420**, 167
- Banay-Schwartz, M., see Adam-Vizi, V., **410**, 257
- Bandler, R., see Griffith, N., **400**, 360
- Banik, N.L., Chakrabarti, A.K., Gantt, G. and Hogan, E.L. Distribution of calcium-activated neutral proteinase activity in quaking mouse brain: a subcellular study, **435**, 57
- Banin, E. and Meiri, H. Impaired control of information transfer at an isolated synapse treated by aluminum: is it related to dementia?, **423**, 359
- Baran, H., Heldt, R. and Hertting, G. Increased prostaglandin formation in rat brain following systemic application of kainic acid, **404**, 107
- Baranyi, A., see Szente, M., **413**, 368
- Baranyi, A. and Szente, M.B. Long-lasting potentiation of synaptic transmission requires postsynaptic modifications in the neocortex, **423**, 378
- Baranyi, A., see Soja, P.J., **423**, 353
- Baranyi, A., Szente, M.B. and Woody, C.D. Intracellular injection of phorbol ester increases the excitability of neurons of the motor cortex of awake cats, **424**, 396
- Barbeau, H. and Rossignol, S. Recovery of locomotion after chronic spinalization in the adult cat, **412**, 84
- Barbeau, H., Julien, C. and Rossignol, S. The effects of clonidine and yohimbine on locomotion and cutaneous reflexes in the adult chronic spinal cat, **437**, 83
- Barbin, G., see Simonneau, M., **412**, 224
- Barker, J.L., see Hedlund, B., **402**, 311
- Barker, J.L., see Mariani, A.P., **415**, 153
- Barksdale, C.M., see Kalin, N.H., **408**, 192
- Barksdale, C.M., see Kalin, N.H., **426**, 385
- Barlow, T.S., see Harrell, L.E., **408**, 131
- Barmack, N.H. and Nelson, B.J. Influence of long-term optokinetic stimulation on eye movements of the rabbit, **437**, 111
- Barmack, N.H. The influence of gravity on horizontal and vertical vestibulo-ocular and optokinetic reflexes in the rabbit, **424**, 89
- Barman, S.M., see Gebber, G.L., **410**, 106
- Barnes, C.A., see Leonard, B.J., **425**, 174
- Barnes, C.A., see Rao, G., **408**, 267
- Barnes, C.D., see Fung, S.J., **401**, 347
- Barnes, C.D., see Fung, S.J., **402**, 230
- Barnes, C.D., see Fung, S.J., **402**, 351
- Barnes, K.L., see Averill, D.B., **414**, 294
- Barnes, S. and Werblin, F. Direct excitatory and lateral inhibitory synaptic inputs to amacrine cells in the tiger salamander retina, **406**, 233
- Barney, C.C., see Katovich, M.J., **426**, 55
- Barnhardt, R., see See, W.R., **421**, 363
- Barnstable, C.J., see Akagawa, K., **408**, 154
- Barnstable, C.J., see Akagawa, K., **437**, 298
- Baron, H., see Gourmelon, P., **411**, 391
- Baron, S.A. and Gintzler, A.R. Effects of hypophysectomy and dexamethasone treatment on plasma β -endorphin and pain threshold during pregnancy, **418**, 138
- Barr, G.A., Eckenrode, T.C. and Murray, M. Normal development and effects of early deafferentation on choline acetyltransferase, substance P and serotonin-like immunoreactivity in the interpeduncular nucleus, **418**, 301
- Barr, G.A., see Eckenrode, T.C., **418**, 273
- Barracough, C.A., see Burri, R., **416**, 267
- Barracough, C.A., see Gitler, M.S., **422**, 1
- Barracough, C.A., see Gitler, M.S., **437**, 332
- Barraco, R.A., Campbell, W.R., Schoener, E.P., Shehin, S.E. and Parizon, M. Cardiovascular effects of microinjections of adenosine analog into the fourth ventricle of rats, **424**, 17
- Barrett, J.A., see Shaikh, M.B., **437**, 332
- Barrett, J.A., Shaikh, M.B., Edinger, H. and Siegel, A. The effects of intrahypothalamic injections of norepinephrine upon affective defense behavior in the cat, **426**, 381
- Barry, M.A. Central connections of the IXth and Xth cranial nerves in the clearnose skate, *Raja eglanteria*, **425**, 159
- Bartfai, T., see Solti, M., **401**, 377
- Bartfai, T., see Nordström, Ö., **420**, 371
- Bartholini, G., see Oblin, A., **421**, 387
- Bartke, A., see Fernandez-Ruiz, J.J., **421**, 65
- Bartke, A., see Phelps, C.J., **411**, 108
- Basbaum, A.I., Godefroy, F. and Weil-Fugazza, J. A new microdissection technique for regional biochemical analysis of the rat spinal cord: serotonin, norepinephrine, dopamine and uric acid, **419**, 229
- Basbaum, C.B., see Mitchell, R.A., **437**, 157
- Baskys, A., Niesen, C.E. and Carlen, P.L. Altered modulatory actions of serotonin on dentate granule cells of aged rats, **419**, 112
- Bass, A.H., see Grober, M.S., **436**, 148
- Batini, C., Daniel, H. and Ramirez, R.D. Release of cerebellar inhibitory activity by partial destruction of the inferior olive with kainic acid in rat, **403**, 186
- Batt, C.M., see Wright, J.W., **420**, 289
- Battaner, E., Rodriguez del Castillo, A., Guerra, M. and Mas, M. Gonadal influences on spinal cord and brain monoamines in male rats, **425**, 391
- Battaner, E., see Rodriguez del Castillo, A., **416**, 113
- Battisti, W.P., Levin, B.E. and Murray, M. Norepinephrine in the interpeduncular nucleus of the rat: normal distribution and the effects of deafferentation, **418**, 287
- Battisti, W.P., see Eckenrode, T.C., **418**, 273
- Baughman, R.W., see Strassman, A., **423**, 293
- Baulac, M., Lachapelle, F., Gout, O., Berger, B., Baumann, N. and Gumpel, M. Transplantation of oligodendrocytes in the newborn mouse brain:

- extension of myelination by transplanted cells. *Anatomical study*, **420**, 39
- Baumann, N., see Baulac, M., **420**, 39
- Baumeister, A.A., Hawkins, M.F., Anticich, T.G., Moore, L.L. and Higgins, T.D.
Bilateral intranigral microinjection of morphine and opioid peptides produces antinociception in rats, **411**, 183
- Baur, A.-M., see Racké, K., **436**, 371
- Baux, G., see Meulemans, A., **414**, 158
- Baux, G., see Poulain, B., **435**, 63
- Bawnik, Y., see Zak, N.B., **408**, 263
- Baxendale, R.H., Ferrell, W.R. and Wood, L.
The effect of mechanical stimulation of knee joint afferents on quadriceps motor unit activity in the decerebrate cat, **415**, 353
- Bayliss, D.A., see Lawing, W.L., **435**, 322
- Bazer, G.T., see Ebbesson, S.O.E., **405**, 175
- Beach, T.G., Tago, H. and McGeer, E.G.
Light microscopic evidence for a substance P-containing innervation of the human nucleus basalis of Meynert, **408**, 251
- Beadle, D.J., see Lees, G., **401**, 267
- Beal, M.F., Mazurek, M.F. and Martin, J.B.
A comparison of somatostatin and neuropeptide Y distribution in monkey brain, **405**, 213
- Beal, M.F., see Chattha, G.K., **401**, 359
- Beal, M.F., see Ellison, D.W., **417**, 389
- Beal, M.F., see Ferrante, R.J., **411**, 162
- Beal, M.F., see Tatsuoaka, Y., **411**, 200
- Beales, M., see Oltmans, G.A., **437**, 183
- Beales, M., see Sukin, D., **426**, 82
- Bean, A.J., see Deutch, A.Y., **417**, 350
- Beart, P.M., see Verberne, A.J.M., **426**, 243
- Beattie, M.S., see Leedy, M.G., **424**, 386
- Beaudet, A., see Frankfurt, M., **419**, 216
- Beaudet, A., see Hamel, E., **401**, 239
- Beaudet, A., see Hervé, D., **435**, 71
- Beck, M.M., Brown-Borg, H.M. and Jones, T.A.
Peripheral and brainstem auditory function in paroxysmal (px) White Leghorn chicks, **406**, 93
- Beck, S.G., see Clarke, W.P., **410**, 357
- Becker, W.J., see Hayashi, R., **403**, 341
- Bédard, P.J., see Martel, J.-C., **419**, 403
- Beer, C.T., see Emanuele, N.V., **421**, 255
- Beesley, P.W., Paladino, T., Gravel, C., Hawkes, R.A. and Gurd, J.W.
Characterization of gp 50, a major glycoprotein present in rat brain synaptic membranes, with a monoclonal antibody, **408**, 65
- Beinfeld, M.C., see Gysling, K., **407**, 110
- Beinfeld, M.C., see Gysling, K., **413**, 365
- Beinfeld, M.C., see Scallet, A.C., **407**, 390
- Beitz, A.J., see Clements, J.R., **421**, 343
- Belkin, M., see Lavie, V., **419**, 166
- Bell, G.A., Laing, D.G. and Panhuber, H.
Odour mixture suppression: evidence for a peripheral mechanism in human and rat, **426**, 8
- Bell, G.A., see Slotnick, B.M., **417**, 343
- Bellin, S.I., Bhatnagar, R.K. and Johnson, A.K.
Periventricular noradrenergic systems are critical for angiotensin-induced drinking and blood pressure responses, **403**, 105
- Bellin, S.I., Landas, S.K. and Johnson, A.K.
Localized injections of 6-hydroxydopamine into lamina terminalis-associated structures: effects on experimentally induced drinking and pressor responses, **416**, 75
- Bell Jr., C.E., see Frikke, M.J., **417**, 283
- Ben-Ari, Y., see Aniksztejn, L., **404**, 58
- Ben-Ari, Y., see Represa, A., **423**, 325
- Ben-Basat, S., see Lavie, V., **419**, 166
- Ben-Jonathan, N., see Murai, I., **420**, 227
- Benabid, A.L., see Mahieux, G., **406**, 118
- Benassi, C., see Biral, G.P., **412**, 43
- Benavides, J., Fage, D., Carter, C. and Scatton, B.
Peripheral type benzodiazepine binding sites are a sensitive indirect index of neuronal damage, **421**, 167
- Benbasat, S., see Zak, N.B., **408**, 263
- Bender, A.S. and Hertz, L.
Inhibition of [³H]diazepam binding in primary cultures of astrocytes by atrial natriuretic peptide and by a cyclic GMP analog, **436**, 189
- Bendo, A.A., Kass, I.S. and Cottrell, J.E.
Anesthetic protection against anoxic damage in the rat hippocampal slice, **403**, 136
- Benetos, A., Gavras, I. and Gavras, H.
Stimulation of vasopressin by calcium microinjections in the area of the paraventricular nucleus of the hypothalamus, **412**, 182
- Benfenati, F., see Pich, E.M., **435**, 147
- Beni, M., see Lombardi, G., **411**, 275
- Benigno, A., see Piazza, P.V., **413**, 356
- Beninato, M. and Spencer, R.F.
A cholinergic projection to the rat substantia nigra from the pedunculo-pontine tegmental nucleus, **412**, 169
- Benitez, J., see Sanchez-Ferrer, C.F., **411**, 304
- Bennett Jr., J.P., see Leslie, C.A., **407**, 253
- Bennett Jr., J.P., see Leslie, C.A., **415**, 90
- Benoliel, J.J., see Taquet, H., **411**, 178
- Benowitz, L.I. and Schmidt, J.T.
Activity-dependent sharpening of the regenerating retinotectal projection in goldfish: relationship to the expression of growth-associated proteins, **417**, 118
- Benowitz, L.I., see Finklestein, S.P., **413**, 267
- Benshoff, H.M., Brainard, G.C., Rollag, M.D. and Lynch, G.R.
Suppression of pineal melatonin in *Peromyscus leucopus* by different monochromatic wavelengths of visible and near-ultraviolet light (UV-A), **420**, 397
- Benson, A.E., see Woodruff, M.L., **408**, 97
- Benson, D.L., see Morrison, J.H., **416**, 331
- Benson, J.A., see Lees, G., **401**, 267
- Benton, J.S., see Palmer, A.M., **414**, 365
- Benzi, R.H., see Shibata, M., **436**, 273
- Berdan, R.C. and Bulloch, A.G.M.
Tannic acid enhances staining of microtubule associated proteins, but impairs neuronal physiology, **417**, 153
- Berdichevsky, E., Muñoz, C., Riveros, N., Cartier, L. and Orrego, F.
Neuropathological changes in the rat brain cortex in vitro: effects of kainic acid and of ion substitutions, **423**, 213
- Berecek, K.H., Olpe, H.-R., Mah, S.C. and Hofbauer, K.G.
Alterations in responsiveness of noradrenergic neurons of the locus coeruleus in deoxycorticosterone acetate (DOCA)-salt hypertensive rats, **401**, 303
- Bergamaschi, S., see Rius, R.A., **402**, 359
- Berger, A.J., see Holtman Jr., J.R., **417**, 12
- Berger, B., see Baulac, M., **420**, 39
- Bergstrom, D.A., see Carlson, J.H., **400**, 205
- Berkenbosch, F. and Steinbusch, H.W.M.
Histamine-immunostaining in the rat median eminence: an unexpected form of cross-reactivity with LH-RH, **405**, 353
- Berkley, K.J. and Contos, N.
A glial-neuronal-glial communication system in the mammalian central nervous system, **414**, 49
- Berkley, K.J., see Elam, J.S., **413**, 129
- Berliner, J.A., see Maxwell, K., **410**, 309

- Bermúdez-Rattoni, F., Fernández, J., Sánchez, M.A., Aguilar-Roblero, R. and Drucker-Colín, R. Fetal brain transplants induce recuperation of taste aversion learning, **416**, 147
- Bernstein, J.J. and Goldberg, W.J. Injury-related spinal cord astrocytes are immunoglobulin-positive (IgM and/or IgG) at different time periods in the regenerative process, **426**, 112
- Bernstein, J.J., see Connor, J.R., **409**, 62
- Bertazzo, A., see Petroni, A., **415**, 226
- Berthold, C.-H., see Corneliuson, O., **416**, 43
- Besharse, J.C., see Pierce, M.E., **405**, 400
- Besson, J.M., see Kayser, V., **414**, 155
- Besson, J.M., see Rivot, J.P., **403**, 142
- Besson, J.M., see Rivot, J.P., **419**, 201
- Bhat, S. and Silberberg, D.H. C6 glioma cells express modified neural-cell adhesion molecule-like glycoproteins, **412**, 144
- Bhatnagar, R.K., see Bellin, S.I., **403**, 105
- Bianchi, A.L., see Grelot, L., **404**, 335
- Bickford-Wimer, P.C., see Granholm, A.-C., **423**, 71
- Bicknell, R.J., see Diez-Guerra, F.J., **424**, 225
- Bidard, J.-N., Gandolfo, G., Mourre, C., Gottesmann, C. and Lazdunski, M. The brain response to the bee venom peptide MCD. Activation and desensitization of a hippocampal target, **418**, 235
- Biemann, K., see Krueger, J.M., **403**, 249
- Biemann, K., see Krueger, J.M., **403**, 258
- Biggio, G., see Porceddu, M.L., **424**, 264
- Bignami, A. and Clark, K. Non-phosphorylated and phosphorylated neurofilaments in hypothyroid rat cerebellum, **409**, 143
- Bilkey, D.K. and Goddard, G.V. Septohippocampal and commissural pathways antagonistically control inhibitory interneurons in the dentate gyrus, **405**, 320
- Bilkey, D.K., see Kairiss, E.W., **401**, 87
- Bingmann, D., see Lipinski, H.-G., **437**, 26
- Biral, G.P., Porro, C.A., Cavazzuti, M., Benassi, C. and Corazza, R. Vertical and horizontal visual whole-field motion differently affect the metabolic activity of the rat medial terminal nucleus, **412**, 43
- Birchem, R., Mithen, F.A., L'Empereur, K.M. and Wessels, M.M. Ultrastructural effects of Guillain-Barré serum in cultures containing only rat Schwann cells and dorsal root ganglion neurons, **421**, 173
- Birt, D., see Hirano, T., **400**, 171
- Bischof, H.-J., see Nixdorf, B., **405**, 326
- Bissette, G., see Deutch, A.Y., **417**, 350
- Bissoli, R., Niso, R., Contestabile, A. and Szabo, T. Regional levels of neurotransmitter-related markers in the brain of the weakly electric fish *Gnathonemus petersii*, **405**, 380
- Bitar, M.S., Koulou, M. and Linnoila, M. Diabetes-induced changes in monoamine concentrations of rat hypothalamic nuclei, **409**, 236
- Bittiger, H., see Olpe, H.R., **412**, 269
- Björklund, A., see Buzsáki, G., **400**, 321
- Björklund, A., see Buzsáki, G., **400**, 334
- Black, I.B., see Martínez, H.J., **412**, 295
- Black, J.A., see Fields, R.D., **404**, 21
- Blackman, C.F., see Miller, D.B., **415**, 371
- Blaha, C.D., see Lane, R.F., **408**, 317
- Blair, J.R., see Turner, J.E., **419**, 46
- Blair, M.L., see Davis, B.J., **405**, 1
- Blake, M.J. and Stein, E.A. Brain stimulation of the ventral tegmental area attenuates footshock escape: an in vivo autoradiographic analysis of opiate receptors, **435**, 181
- Blake, M.J., Stein, E.A. and Czech, D.A. Drinking-induced alterations in reward pathways: an in vivo autoradiographic analysis, **413**, 111
- Blakely, R.D., Öry-Lavollée, L., Grzanna, R., Koller, K.J. and Coyle, J.T. Selective immunocytochemical staining of mitral cells in rat olfactory bulb with affinity purified antibodies against N-acetyl-aspartyl-glutamate, **402**, 373
- Blakemore, L.J., see Allen, E.E., **401**, 397
- Blakemore, W.F., Duncan, I.D. and Hammang, J.P. Node-like axonal undercoating in the optic nerve of heterozygous myelin-deficient rats, **403**, 361
- Blanchard, C.E., see Altt, G., **416**, 166
- Blanchard, J.S., see Cubells, J.F., **419**, 208
- Bland, B.H., see Colom, L.V., **410**, 12
- Bland, B.H., see Colom, L.V., **422**, 277
- Bland, B.H., see Konopacki, J., **405**, 196
- Bland, B.H., see Konopacki, J., **417**, 399
- Bland, B.H., see Konopacki, J., **436**, 217
- Blasberg, R.G., see Tsubaki, S.I., **424**, 71
- Blasevich, M., see Petroni, A., **415**, 226
- Blass, J.P., see Sims, N.R., **436**, 30
- Blatteis, C.M., see Shoham, S., **419**, 223
- Blaustein, J.D. and Letcher, B. Noradrenergic regulation of cytosol estrogen receptors in female rat hypothalamus: possible role of α_2 -noradrenergic receptors, **404**, 51
- Blaustein, J.D. and Turcotte, J. Further evidence of noradrenergic regulation of rat hypothalamic estrogen receptor concentration: possible non-functional increase and functional decrease, **436**, 253
- Blaustein, J.D. The α_1 -noradrenergic antagonist prazosin decreases the concentration of estrogen receptors in female rat hypothalamus, **404**, 39
- Blessing, W.W., Hedger, S.C., Joh, T.H. and Willoughby, J.O. Neurons in the area postrema are the only catecholamine-synthesizing cells in the medulla or pons with projections to the rostral ventrolateral medulla (C₁-area) in the rabbit, **419**, 336
- Blessing, W.W., see Pilowsky, P.M., **420**, 380
- Blessing, W.W., see Willoughby, J.O., **418**, 170
- Bliss Tieman, S., Cangro, C.B. and Neale, J.H. N-Acetylaspartylglutamate immunoreactivity in neurons of the cat's visual system, **420**, 188
- Block, G.D., see Roberts, M.H., **423**, 286
- Bloedel, J.R., see McDevitt, C.J., **425**, 1
- Bloedel, J.R., see McDevitt, C.J., **425**, 14
- Bloedel, J.R., see Rea, G.L., **418**, 58
- Bloom, M.M., see Iuvone, P.M., **418**, 314
- Bloomquist, J.R., see Stuart, A.M., **437**, 77
- Blum, M.R., see Kim, P., **402**, 87
- Blumstein, L.K., Crawley, J.N., Davis, L.G. and Baldino Jr., F. Neuropeptide modulation of apomorphine-induced stereotyped behavior, **404**, 293
- Boatright, J.H., see Iuvone, P.M., **418**, 314
- Bockaert, J., see Eybalin, M., **421**, 336
- Bockaert, J., see Pin, J.-P., **402**, 11
- Boegman, R.J., Metcalf, R., Riopelle, R.J. and Ludwin, S.K. Neurotoxicity of quinolinate in the rat nucleus basalis magnocellularis, **417**, 315
- Boegman, R.J., Smith, Y. and Parent, A. Quinolinic acid does not spare striatal neuropeptide Y-immunoreactive neurons, **415**, 178
- Boer, G.J., see Kruisbrink, J., **419**, 76
- Bogóñez, E., see Martínez, A., **435**, 249

- Böhringer, P.G., see Güntürkün, O., **408**, 1
- Bol, J.G.J.M., see Wouterlood, F.G., **406**, 330
- Bologa, L., see Roberts, E., **406**, 357
- Bologa, L., Sharma, J., Dahl, D. and Roberts, E.
Buffers and H₂O₂ reduce neuronal death and/or enhance differentiation of neurons and astrocytes in dissociated mouse brain cultures, **411**, 282
- Bona-Gallo, A., see Babu, G.N., **416**, 235
- Bondy, S.C., see Ahmad, G., **415**, 194
- Bondy, S.C., see Komulainen, H., **401**, 50
- Bonhaus, D.W. and McNamara, J.O.
Activity of locus coeruleus neurons in amygdala kindled rats: role in the suppression of afterdischarge, **407**, 102
- Bonhaus, D.W., Rigsbee, L.C. and McNamara, J.O.
Intranigral dynorphin-1-13 suppresses kindled seizures by a naloxone-insensitive mechanism, **405**, 358
- Bonhaus, D.W., see Shin, C., **412**, 311
- Bonneau, M., Ahdieh, H.B., Thornton, J.E. and Feder, H.H.
Cytosol androgen receptors in guinea pig brain and pituitary, **413**, 104
- Borges, L.F.
Selective axonal transport of anthracycline antibiotics, **426**, 367
- Borgh, A., see Petroni, A., **415**, 226
- Borja, M.A., see Anderson, K.J., **411**, 172
- Borke, R.C. and Nau, M.E.
The ultrastructural morphology and distribution of trigemino-hypoglossal connections labeled with horseradish peroxidase, **422**, 235
- Bornschlegl, M. and Asanuma, H.
Importance of the projection from the sensory to the motor cortex for recovery of motor function following partial thalamic lesion in the monkey, **437**, 121
- Borst, J.G.G., Leung, L.-W.S. and MacFabe, D.F.
Electrical activity of the cingulate cortex. II. Cholinergic modulation, **407**, 81
- Borst, J.G.G., see Leung, L.-W.S., **407**, 68
- Bortolotto, Z.A., see Cavalheiro, E.A., **411**, 370
- Boss, B.D., Turlejski, K., Stanfield, B.B. and Cowan, W.M.
On the numbers of neurons in fields CA₁ and CA₃ of the hippocampus of Sprague-Dawley and Wistar rats, **406**, 280
- Bostwick, J.R., Appel, S.H. and Perez-Polo, J.R.
Distinct influences of nerve growth factor and a central cholinergic trophic factor on medial septal explants, **422**, 92
- Botez, M.I., see Lalonde, R., **411**, 187
- Bottiglieri, D.F., Sumners, C. and Raizada, M.K.
Angiotensin II inhibits the K⁺-evoked release of [³H]norepinephrine from hypothalamic synaptosomes of the spontaneously hypertensive rat, **403**, 167
- Boudinot, E., see Foutz, A.S., **404**, 10
- Boulton, A.A., see Sardar, A., **412**, 370
- Bouras, C., see Morrison, J.H., **416**, 331
- Bourgoin, S., see Le Bars, D., **402**, 188
- Bourgoin, S., see Le Bars, D., **412**, 190
- Bourne, R.C., see Chmielowska, J., **425**, 283
- Bouvier, C., see Collu, R., **401**, 23
- Bovell, M., see MacMillan, V., **420**, 268
- Bowen, D.M., see Palmer, A.M., **401**, 231
- Bowen, D.M., see Palmer, A.M., **414**, 365
- Bowen, D.M., see Sims, N.R., **436**, 30
- Bowers, M., see Ross, C.D., **401**, 168
- Bowersox, S.S., Kilduff, T.S., Faull, K.F., Zeller-DeAmicis, L., Dement, W.C. and Ciaranello, R.D.
Brain dopamine receptor levels elevated in canine narcolepsy, **402**, 44
- Bowker, R.M., see Fung, S.J., **401**, 347
- Bowman, C.L. and Kimelberg, H.K.
Pharmacological properties of the norepinephrine-induced depolarization of astrocytes in primary culture: evidence for the involvement of an α_1 -adrenergic receptor, **423**, 403
- Boyer, C.E., see Ault, B., **426**, 93
- Boyett, S., see Nehlig, A., **419**, 272
- Bozarth, M.A.
Neuroanatomical boundaries of the reward-relevant opiate-receptor field in the ventral tegmental area as mapped by the conditioned place preference method in rats, **414**, 77
- Bracha, H.S., Seitz, D.J., Otemaa, J. and Glick, S.D.
Rotational movement (circling) in normal humans: sex difference and relationship to hand, foot and eye preference, **411**, 231
- Bradley, R.J. and Edge, M.T.
Forskolin counteracts the effects of the organophosphate soman at the neuromuscular junction, **425**, 401
- Bradley, R.M., see Gurkan, S., **419**, 287
- Brady, L.S. and Herkenham, M.
Dehydration reduces κ -opiate receptor binding in the neurohypophysis of the rat, **425**, 212
- Brainard, G.C. and Morgan, W.W.
Light-induced stimulation of retinal dopamine: a dose-response relationship, **424**, 199
- Brainard, G.C., see Benshoff, H.M., **420**, 397
- Bramham, C.R. and Srebro, B.
Induction of long-term depression and potentiation by low- and high-frequency stimulation in the dentate area of the anesthetized rat: magnitude, time course and EEG, **405**, 100
- Brand, J.G., Bryant, B.P., Cagan, R.H. and Kalinoski, D.L.
Biochemical studies of taste sensation. XIII. Enantiomeric specificity of alanine taste receptor sites in catfish, *Ictalurus punctatus*, **416**, 119
- Brand, J.G., see Kalinoski, D.L., **418**, 34
- Brandon, C.
Cholinergic neurons in the rabbit retina: dendritic branching and ultrastructural connectivity, **426**, 119
- Brandon, C.
Cholinergic neurons in the rabbit retina: immunocytochemical localization, and relationship to GABAergic and cholinesterase-containing neurons, **401**, 385
- Bratlid, D., see Hansen, T.W.R., **424**, 26
- Braun, G.H.-U., see Michelsen, D.B., **421**, 14
- Brecha, N.C., see Mantyh, C.R., **412**, 329
- Brehier, A., see Sans, A., **435**, 293
- Bréhier, A., see Rami, A., **422**, 149
- Brennan, T.J., see Girardot, M.-N., **409**, 19
- Brenneman, D.E., see Guthrie, P.B., **420**, 313
- Bresnahan, J.C., see Leedy, M.G., **424**, 386
- Bressler, S.L.
Relation of olfactory bulb and cortex. I. Spatial variation of bulbocortical interdependence, **409**, 285
- Bressler, S.L.
Relation of olfactory bulb and cortex. II. Model for driving of cortex by bulb, **409**, 294
- Bridges, R.J., Kesslak, J.P., Nieto-Sampedro, M., Broderick, J.T., Yu, J. and Cotman, C.W.
A L- [³H] glutamate binding site on glia: an autoradiographic study on implanted astrocytes, **415**, 163
- Bridges, R.S., see Hammer Jr., R.P., **420**, 48
- Brière, R., see Diop, L., **402**, 403
- Brightman, M.W., see Tsubaki, S.I., **424**, 71
- Brimijoin, S., see Nagata, H., **422**, 319
- Brisac, A.-M., Huguet, F., Champeroux, P., Montastruc, J.-L., Lucet, B., Gerard, P., Laurent, S., Narcisse, G. and Schmitt, H.
Central interactions between dihydropyridines and cholinergic systems in the control of blood pressure in rat, **435**, 160
- Brismar, J., see Sahlin, C., **403**, 313

- Brismar, T., Hildebrand, C. and Tegnér, R.
Nodes of Ranvier in acrylamide neuropathy: voltage clamp and electron microscopic analysis of rat sciatic nerve fibres at proximal levels, **423**, 135
- Brittingham, J., see Haan, E.A., **426**, 19
- Britto, L.R.G., see Natal, C.L., **419**, 320
- Broderick, J.T., see Bridges, R.J., **415**, 163
- Brodie, C. and Sampson, S.R.
Nerve growth factor supports growth of rat skeletal myotubes in culture, **435**, 393
- Brodie, M.S. and Dunwiddie, T.V.
Cholecystokinin potentiates dopamine inhibition of mesencephalic dopamine neurons in vitro, **425**, 106
- Brodie, M.S., Lee, K., Fredholm, B.B., Stähle, L. and Dunwiddie, T.V.
Central versus peripheral mediation of responses to adenosine receptor agonists: evidence against a central mode of action, **415**, 323
- Brodin, L., see Buchanan, J.T., **408**, 299
- Brodin, L., see Buchanan, J.T., **408**, 321
- Brodish, A., see O'Steen, W.K., **426**, 37
- Brody, M.J., see Janss, A.J., **405**, 140
- Broekkamp, C.L.E., see Hagan, J.J., **410**, 69
- Bronstein, D.M., Jacobs, G.H., Haak, K.A., Neitz, J. and Lytle, L.D.
Action spectrum of the retinal mechanism mediating nocturnal light-induced suppression of rat pineal gland *N*-acetyltransferase, **406**, 352
- Brooke, J.D., see McIlroy, W.E., **407**, 317
- Brooks, B.A., Eidelberg, E. and Morgan, W.W.
Behavioral and biochemical studies in monkeys made hemiparkinsonian by MPTP, **419**, 329
- Brooks, P.A., Kelly, J.S., Allen, J.M., Smith, D.A.S. and Stone, T.W.
Direct excitatory effects of neuropeptide Y (NPY) on rat hippocampal neurones in vitro, **408**, 295
- Brown, J.C., see Millhorn, D.E., **424**, 99
- Brown, L.L., Wolfson, L.I. and Feldman, S.M.
Functional neuroanatomic mapping of the rat striatum: regional differences in glucose utilization in normal controls and after treatment with apomorphine, **411**, 65
- Brown, M., Allen, R. and Fisher, L.
Bombesin alters the sympathetic nervous system response to cold exposure, **400**, 35
- Brown, M.J., see Sladky, J.T., **414**, 323
- Brown, M.R., see Lenz, H.J., **413**, 1
- Brown, M.W., Wilson, F.A.W. and Riches, I.P.
Neuronal evidence that inferomedial temporal cortex is more important than hippocampus in certain processes underlying recognition memory, **409**, 158
- Brown, R.M., see Scallet, A.C., **436**, 193
- Brown-Borg, H.M., see Beck, M.M., **406**, 93
- Brownfield, M.S., see Kalin, N.H., **426**, 385
- Brožek, G., see Hernández-Cáceres, J., **437**, 360
- Bruce, G., see Carpenter, M.B., **408**, 275
- Bruce, G., see Tago, H., **415**, 49
- Bruce, J.L., see Gorenstein, C., **418**, 68
- Bruch, R.C., see Kalinoski, D.L., **418**, 34
- Bruhn, T.O., Anthony, E.L.P., Wu, P. and Jackson, I.M.D.
GRF immunoreactive neurons in the paraventricular nucleus of the rat: an immunohistochemical study with monoclonal and polyclonal antibodies, **424**, 290
- Bruhn, T.O., see Anthony, E.L.P., **424**, 258
- Bruschi, F., see Magni, F., **424**, 379
- Brussaard, A.B., see De Graan, P.N.E., **404**, 345
- Bryant, B.P., see Brand, J.G., **416**, 119
- Bryld, E., Zeeberg, I., Gjerris, A., Werdelin, L. and Rehfeld, J.F.
Increased cerebrospinal fluid concentrations of C- but not N-terminal cholecystokinin fragments in multiple sclerosis, **409**, 364
- Buchan, A., see Millhorn, D.E., **424**, 99
- Buchanan, J.T., Brodin, L., Dale, N. and Grillner, S.
Reticulospinal neurones activate excitatory amino acid receptors, **408**, 321
- Buchanan, J.T., Brodin, L., Hökfelt, T., Van Dongen, P.A.M. and Grillner, S.
Survey of neuropeptide-like immunoreactivity in the lamprey spinal cord, **408**, 299
- Buchholz, R.A., see Hubbard, J.W., **421**, 226
- Buchwald, N.A., see Levine, M.S., **401**, 213
- Buchwald, N.A., see Levine, M.S., **405**, 389
- Buck, S.H., see Swenberg, M.-L., **417**, 131
- Budai, D., see Fatranská, M., **424**, 109
- Buell, S.J., see Flood, D.G., **402**, 205
- Bullock, A.G.M.
Somatostatin enhances neurite outgrowth and electrical coupling of regenerating neurons in *Helisoma*, **412**, 6
- Bullock, A.G.M., see Berdan, R.C., **417**, 153
- Bullock, A.G.M., see Jones, P.G., **437**, 56
- Bülthoff, I., see Bülthoff, H., **407**, 152
- Bülthoff, H. and Bülthoff, I.
GABA-antagonist inverts movement and object detection in flies, **407**, 152
- Bundman, M.C., see Gorenstein, C., **418**, 68
- Bunney, B.S., see Chiodo, L.A., **410**, 205
- Bunney, B.S., see Freeman, A.S., **405**, 46
- Buño Jr., W., see Alonso, A., **413**, 135
- Buño Jr., W., see Núñez, A., **416**, 289
- Burchfiel, J.L., see Applegate, C.D., **407**, 212
- Burd, G., see Grober, M.S., **436**, 148
- Bureš, J., see Gorelova, N.A., **404**, 379
- Bureš, J., see Hernández-Cáceres, J., **437**, 360
- Burke Jr., T.R., see Ostrowski, N.L., **402**, 275
- Burks, D., see Gall, C., **403**, 403
- Burmeister, D.W. and Dunn-Meynell, A.A.
Recovery of regenerating goldfish retinal ganglion cells is slowed in the absence of the topographically correct synaptic target, **423**, 56
- Burnard, D.M., Veale, W.L. and Pittman, Q.J.
Altered sensitivity to arginine vasopressin (AVP) in area CA₁ of the hippocampal slice following pretreatment of rats with AVP, **422**, 11
- Burnett, P.C., see Kim, P., **402**, 87
- Burnstock, G., see Hassall, C.J.S., **422**, 74
- Burnstock, G., see Pittam, B.S., **403**, 267
- Burri, R., Petersen, S.L. and Barraclough, C.A.
Effects of *p*-chlorophenylalanine on hypothalamic indoleamine levels and the associated changes which occur in catecholamine dynamics and LH surges in estrogen-treated ovariectomized rats, **416**, 267
- Burton, P.R.
Microtubules of frog olfactory axons: their length and number/axon, **409**, 71
- Buscher, W., see Huston, J.P., **436**, 1
- Busciglio, J., Ferreira, A., Steward, O. and Cáceres, A.
An immunocytochemical and biochemical study of the microtubule-associated protein Tau during post-lesion afferent reorganization in the hippocampus of adult rats, **419**, 244
- Busija, D.W. and Leffler, C.W.
Eicosanoid synthesis elicited by norepinephrine in piglet parietal cortex, **403**, 243
- Busto, R., see Vibulsreth, S., **422**, 303
- Busto, R., see Yoshida, S., **412**, 114

- Butcher, S.P., Roberts, P.J. and Collins, J.F.
DL-2-[3,4-³H]Amino-4-phosphonobutyrate binding sites in the rat hippocampus: distribution and possible physiological role, **419**, 294
- Buzsáki, G., Haas, H.L. and Anderson, E.G.
Long-term potentiation induced by physiologically relevant stimulus patterns, **435**, 331
- Buzsáki, G., Gage, F.H., Czopf, J. and Björklund, A.
Restoration of rhythmic slow activity (θ) in the subcortically denervated hippocampus by fetal CNS transplants, **400**, 334
- Buzsáki, G., Gage, F.H., Kellényi, L. and Björklund, A.
Behavioral dependence of the electrical activity of intracerebrally transplanted fetal hippocampus, **400**, 321
- Byerley, W.F., McConnell, E.J., McCabe, R.T., Dawson, T.M., Grosser, B.I. and Wamsley, J.K.
Chronic administration of sertraline, a selective serotonin uptake inhibitor, decreased the density of β -adrenergic receptors in rat frontoparietal cortex, **421**, 377
- Byers, M.R., Mecifi, K.B. and Kimberly, C.L.
Numerous nerves with calcitonin gene-related peptide-like immunoreactivity innervate junctional epithelium of rats, **419**, 311
- Bylsma, F.W., see Pivik, R.T., **423**, 196
- Byrne, P.M., see Tasaki, I., **407**, 386
- Paula-Barbosa, M., **417**, 139
- Cagan, R.H., see Brand, J.G., **416**, 119
- Cahill, G.M. and Menaker, M.
Kynurenic acid blocks suprachiasmatic nucleus responses to optic nerve stimulation, **410**, 125
- Calacagni, M., see Panzica, G.C., **416**, 59
- Calas, A., see Onténiente, B., **421**, 391
- Callaway, J.C., Masinovsky, B. and Graubard, K.
Co-localization of SCP_B-like and FMRFamide-like immunoreactivities in crustacean nervous systems, **405**, 295
- Calvino, B., see Rivot, J.P., **403**, 142
- Calvo, J.M., Badillo, S., Morales-Ramirez, M. and Palacios-Salas, P.
The role of the temporal lobe amygdala in ponto-geniculo-occipital activity and sleep organization in cats, **403**, 22
- Camardo, J.S., see Pollock, J.D., **410**, 367
- Camarota, N.A., see Shapiro, R.M., **426**, 323
- Camarri, F., see Marrosu, F., **408**, 394
- Campbell, A., Baldessarini, R.J., Kula, N.S., Ram, V.J. and Neumeyer, J.L.
S(+)-Methylenedioxy-N-n-propyloraporphine: an orally active inhibitor of dopamine selective for rat limbic system, **403**, 393
- Campbell, G.A., see Haroutunian, V., **403**, 234
- Campbell, J.N., see Meyer, R.A., **437**, 181
- Campbell, K.A., see Foster, T.C., **408**, 86
- Campbell, M.J., see Morrison, J.H., **416**, 331
- Campbell, W.R., see Barraco, R.A., **424**, 17
- Campos, H.A., see Gómez, M.N., **404**, 304
- Cancilla, P.A., see Maxwell, K., **410**, 309
- Cangro, C.B., see Bliss Tieman, S., **420**, 188
- Cannata, M.A., Musi, E.A. and Gomez, R.E.
Effect of transection in the brainstem on short-term maintenance of deoxycorticosterone-salt hypertension, **420**, 295
- Cano, J., see Satorre, J., **404**, 231
- Caprio, J., see Kanwal, J.S., **406**, 105
- Caramia, M., see Rossini, P.M., **415**, 211
- Carasco, L.H., see Arai, H., **418**, 164
- Carcangiu, P., see Marrosu, F., **408**, 394
- Cardinali, D.P., see Franchi, A.M., **405**, 384
- Cardo, B., see Ferissiwi, A., **437**, 142
- Carenzi, A., see Reggiani, A., **423**, 254
- Carey, R.G. and Rieck, R.W.
Topographic projections to the visual cortex from the basal forebrain in the rat, **424**, 205
- Carey, R.G., see Horn, K.M., **416**, 187
- Carla, V., see Lombardi, G., **411**, 275
- Carlen, P.L., see Baskys, A., **419**, 112
- Carlen, P.L., see Davies, M.F., **437**, 239
- Carlson, D.E. and Gann, D.S.
Responses of adrenocorticotropin and vasopressin to hemorrhage after lesions of the caudal ventrolateral medulla in rats, **406**, 385
- Carlson, J.H., Bergstrom, D.A. and Walters, J.R.
Stimulation of both D₁ and D₂ dopamine receptors appears necessary for full expression of postsynaptic effects of dopamine agonists: a neurophysiological study, **400**, 205
- Carlson, J.N., Herrick, K.F., Baird, J.L. and Glick, S.D.
Selective enhancement of dopamine utilization in the rat prefrontal cortex by food deprivation, **400**, 200
- Carlson, S., see Pertovaara, A., **422**, 205
- Carlsson, K.-H., see Wilcox, G.L., **405**, 84
- Carlton, S.M., see Steinman, J.L., **426**, 297
- Carlton, S.M., Steinman, J.L., Hillman, G.R. and Willis, W.D.
Differential effects of *p*-chlorophenylalanine on indoleamines in brainstem nuclei and spinal cord of rats. II. Identification of immunohistochemically stained structures using computer-assisted image enhancement techniques, **426**, 310
- Carpenter, C.L., see Greenberg, D.A., **404**, 401
- Carpenter, C.L., see Greenberg, D.A., **410**, 143
- Carpenter, D.O., see Jahan-Parwar, B., **426**, 173
- Carpenter, M.B., Chang, L., Pereira, A.B. and Hersh, L.B.
Comparisons of the immunocytochemical localization of choline acetyltransferase in the vestibular nuclei of the monkey and rat, **418**, 403
- Carpenter, M.B., Chang, L., Pereira, A.B., Hersh, L.B., Bruce, G. and Wu, J.-Y.
Vestibular and cochlear efferent neurons in the monkey identified by immunocytochemical methods, **408**, 275
- Carr, K.D., Bak, T.H., Gioannini, T.L. and Simon, E.J.
Antibodies to dynorphin A(1-13) but not β -endorphin inhibit electrically elicited feeding in the rat, **422**, 384
- Carr, W.E.S., see Derby, C.D., **421**, 57
- Carraway, R.E., see Eldred, W.D.,

C

- 424, 361
- Carrigan, D.R., see Fishman, P.S., 406, 275
- Carroll, K.L., see Donoghue, J.P., 408, 367
- Carroll, P.T.
Veratridine-induced activation of choline-*O*-acetyltransferase activity in rat hippocampal tissue: relationship to the veratridine-induced release of acetylcholine, 414, 401
- Carroll, W.M., Jennings, A.R. and Mastaglia, F.L.
Reactive glial cells in CNS demyelination contain both GC and GFAP, 411, 364
- Carter, C., see Benavides, J., 421, 167
- Carter, D.A. and Lightman, S.L.
A role for the area postrema in mediating cholecystokinin-stimulated oxytocin secretion, 435, 327
- Carter, D.A. and Lightman, S.L.
Modulation of oxytocin secretion by ascending noradrenergic pathways: sexual dimorphism in rats, 406, 313
- Cartier, L., see Berdichevsky, E., 423, 213
- Carvey, P.M., Kao, L.C. and Klawans, H.L.
The effect of bilateral kainic acid-induced lateral habenula lesions on dopamine-mediated behaviors, 409, 193
- Cascio, C.S., Shinsako, J. and Dallman, M.F.
The suprachiasmatic nuclei stimulate evening ACTH secretion in the rat, 423, 173
- Casey, K.L., Morrow, T.J., Terry, L.C. and Craig, R.
Differential effects of chronic partial myelotomies on monoamine levels in cat spinal cord, 408, 377
- Caspary, D.M., Pazara, K.E., Kössl, M. and Faingold, C.L.
Strychnine alters the fusiform cell output from the dorsal cochlear nucleus, 417, 273
- Caspers, M.L., Schwartz, R.D., Labarca, R. and Paul, S.M.
Autoradiographic visualization and characterization of [³H]ouabain binding to the Na⁺, K⁺-ATPase of rat brain and pineal, 409, 335
- Cassella, J.V., see Kehne, J.H., 406, 87
- Cassidy, M., see Kowalski, M.M., 406, 397
- Castorina, M., see Fariello, R.G., 426, 373
- Castrén, E., Kurihara, M., Gutkind, J.S. and Saavedra, J.M.
Specific angiotensin II binding sites in the rat stellate and superior cervical ganglia, 422, 347
- Castro, A.J., see Kartje-Tillotson, G., 415, 172
- Castro, A.J., see Kosinski, R.J., 406, 302
- Catelli, J.M., Giakas, W.J. and Sved, A.F.
GABAergic mechanisms in nucleus tractus solitarius alter blood pressure and vasopressin release, 403, 279
- Caudarella, M., Durkin, T., Galey, D., Jeantet, Y. and Jaffard, R.
The effect of diazepam on hippocampal EEG in relation to behavior, 435, 202
- Caudle, R.M. and Isaac, L.
Intrathecal dynorphin(1–13) results in an irreversible loss of the tail-flick reflex in rats, 435, 1
- Cavalheiro, E.A., Bortolotto, Z.A. and Turski, L.
Microinjections of the γ -aminobutyrate antagonist, bicuculline methiodide, into the caudate-putamen prevent amygdala-kindled seizures in rats, 411, 370
- Cavanagh, M.E., see Papadopoulos, G.C., 420, 95
- Cavazzuti, M., see Biral, G.P., 412, 43
- Caverson, M.M., see Elisevich, K., 408, 227
- Cawkwell, R.D., see Keep, R.F., 413, 45
- Cazala, P., Darracq, C. and Saint-Marc, M.
Self-administration of morphine into the lateral hypothalamus in the mouse, 416, 283
- Cedarbaum, J.M., see Porter, L.L., 436, 136
- Celio, M.R., see Imboden, H., 410, 74
- Celio, M.R., see Magistretti, P.J., 403, 181
- Centra, M., see Lysz, T.W., 408, 6
- Cervera, P., see Mourre, C., 417, 21
- Cervero, F., see Tattersall, J.E.H., 416, 337
- Cervo, L., see Esposito, E., 436, 25
- Cervone, A., see Larocca, J.N., 436, 357
- Cesselin, F., see Le Bars, D., 402, 188
- Cesselin, F., see Le Bars, D., 412, 190
- Cesselin, F., see Taquet, H., 411, 178
- Cevolani, D., see Parmeggiani, P.L., 415, 79
- Chai, C.Y., see Kuo, J.S., 417, 181
- Chakrabarti, A.K., see Banik, N.L., 435, 57
- Chalmers, J.P., see Pilowsky, P.M., 420, 380
- Chamberlain, C.R., see Sprinkle, T.J., 426, 349
- Chambers, J.P., see Vaughan, M.K., 417, 321
- Champagnat, J., see Foutz, A.S., 404, 10
- Champeroux, P., see Brisac, A.-M., 435, 160
- Chan, J., see Milner, T.A., 411, 46
- Chan, Y.S., Cheung, Y.M. and Hwang, J.C.
Response characteristics of neurons in the cat vestibular nuclei during slow and constant velocity off-vertical axes rotations in the clockwise and counterclockwise rotations, 406, 294
- Chance, W.T., Foley-Nelson, T., Nelson, J.L. and Fischer, J.E.
Neurotransmitter alterations associated with feeding and satiety, 416, 228
- Chandler, S.H., see Baker, L.L., 420, 333
- Chandler, S.H., see Baker, L.L., 420, 340
- Chang, F.-L.F., see Loeb, E.P., 403, 113
- Chang, G.D. and Ramirez, V.D.
Effects on dopamine metabolism of MPTP and MPP⁺ infused through a push-pull cannula into the caudate nucleus of awake adult male rats, 424, 49
- Chang, H.T., Penny, G.R. and Kitai, S.T.
Enkephalinergic-cholinergic interaction in the rat globus pallidus: a pre-embedding double-labeling immunocytochemistry study, 426, 197
- Chang, K.-J., see Crain, B.J., 412, 343
- Chang, L., see Carpenter, M.B., 408, 275
- Chang, L., see Carpenter, M.B., 418, 403
- Chang, Y.T., Lin, J.W. and Faber, D.S.
Spinal inputs to the ventral dendrite of the teleost Mauthner cell, 417, 205
- Changaris, D.G., see Schurr, A., 412, 179
- Chapin, J.K., see Smith, S.S., 400, 353
- Chappel, E.T., see Turner, J.E., 419, 46
- Charlton, C.G. and Helke, C.J.
Substance P-containing medullary projections to the intermediolateral cell column: identification with retrogradely transported rhodamine-labeled latex microspheres and immunohistochemistry, 418, 245
- Charton, G., see Aniksztejn, L., 404, 58
- Chase, M.H., see Soja, P.J., 423, 353
- Chattha, G.K. and Beal, M.F.
Effect of cysteamine on somatostatin and neuropeptide Y in rat striatum and cortical synaptosomes, 401, 359
- Chen, D., see Jen, P.H.-S., 419, 7
- Chen, G.L., Halligan, N.L.N., Lue, N.F. and Chen, W.W.
Biosynthesis of myelin-associated proteins in Simian virus 40 (SV40)-transformed rat Schwann cell lines, 414, 35
- Chen, J.-S., see Pavlides, C., 423, 399
- Chen, K.S. and Stanfield, B.B.
Evidence that selective collateral elimination during postnatal development results in a restriction in the distribution of locus coeruleus neurons which project to the spinal cord in rats, 410, 154
- Chen, L.S., see King, P.H., 423, 261
- Chen, W.W., see Chen, G.L., 414, 35

- Chen, Y.-F. and Oparil, S.
Enhanced response to the inhibitory action of LY171555, a dopamine D₂-agonist, on in vivo striatal dopamine release in DOCA/NaCl-hypertensive rats, **400**, 225
- Chen, Y.-F., Jin, H., Gist, R. and Oparil, S.
Altered responsiveness of regional brain dopamine and DOPAC levels to systemic administration of quinpirole, a dopamine D₂ agonist, in DOCA/NaCl-hypertensive rats, **413**, 15
- Chentanez, T. and Redburn, D.A.
Synaptosomal neurotransmitter uptake systems in the retina and brain nuclei of light- and dark-adapted rabbits, **424**, 115
- Cherkin, A., see Flood, J.F., **422**, 218
- Chesselet, M.-F. and Affolter, H.-U.
Preprotachykinin messenger RNA detected by in situ hybridization in striatal neurons of the human brain, **410**, 83
- Cheung, Y.M., see Chan, Y.S., **406**, 294
- Chiang, B.N., see Kuo, J.S., **417**, 181
- Chiang, C.-Y. and Xiang, X.-K.
Does morphine enhance the release of 5-hydroxytryptamine in the rat spinal cord? An in vivo differential pulse voltammetry study, **411**, 259
- Chiang, R.G. and Steel, C.G.H.
Changes during the moult cycle in the bursting firing pattern of the electrical activity recorded extracellularly from the sinus gland of the terrestrial isopod, *Oniscus asellus*, **402**, 49
- Chiappinelli, V.A., see Ramirez, O.A., **414**, 228
- Chiappinelli, V.A., Wolf, K.M., DeBin, J.A. and Holt, I.L.
Kappa-flavitoxin: isolation of a new neuronal nicotinic receptor antagonist that is structurally related to kappa-bungarotoxin, **402**, 21
- Chiarugi, V.P., see Corradetti, R., **411**, 196
- Chida, K., see Iwata, J., **418**, 183
- Chilcoat, R., see Wu, W.-H., **401**, 407
- Chiodera, P. and Coiro, V.
Oxytocin reduces metyrapone-induced ACTH secretion in human subjects, **420**, 178
- Chiodo, L.A., Freeman, A.S. and Bunney, B.S.
Electrophysiological studies on the specificity of the cholecystokinin antagonist proglumide, **410**, 205
- Chiszar, D., see Dickman, J.D., **400**, 365
- Chmielowska, J., Stewart, M.G. and Bourne, R.C.
Autoradiographic localization of γ -aminobutyric acid receptors in mouse barrel field, **425**, 283
- Chmykhova, N.M., see Babalian, A.L., **407**, 394
- Cho, E.Y.P. and So, K.-F.
Rate of regrowth of damaged retinal ganglion cell axons regenerating in a peripheral nerve graft in adult hamsters, **419**, 369
- Choi, D.W.
Dextrorphan and dextromethorphan attenuate glutamate neurotoxicity, **403**, 333
- Choi, D.W., see Kim, J.P., **437**, 103
- Choi, D.W., see Peters, S., **420**, 1
- Choulli, K., Herman, J.P., Rivet, J.M., Simon, H. and Le Moal, M.
Spontaneous and graft-induced behavioral recovery after 6-hydroxy-dopamine lesion of the nucleus accumbens in the rat, **407**, 376
- Chow, C.W., see Haan, E.A., **426**, 19
- Christakos, C.N., see Cohen, M.I., **417**, 148
- Christakos, C.N., see See, W.R., **421**, 363
- Christen, W.G. and Mower, G.D.
Effects of monocular occlusion and diffusion on visual system development in the cat, **415**, 233
- Christian, E.P., see Foster, T.C., **408**, 86
- Christie, M.J., see Verberne, A.J.M., **426**, 243
- Chrobak, J.J., Hanin, I. and Walsh, T.J.
AF64A (ethylcholine aziridinium ion), a cholinergic neurotoxin, selectively impairs working memory in a multiple component T-maze task, **414**, 15
- Chu, N.-S., see Keenan, C.L., **410**, 189
- Chubb, I.W., see Millar, T.J., **421**, 297
- Chung, J.M., see Kim, J., **417**, 304
- Chung, R.Y., Mason, P., Strassman, A. and Maciewicz, R.
Suppression of the jaw-opening reflex by periaqueductal gray stimulation is decreased by paramedian brainstem lesions, **403**, 172
- Chung, T., see MacMillan, V., **420**, 268
- Church, M.W. and Shucard, D.W.
Pentobarbital-induced changes in the mouse brainstem auditory evoked potential as a function of click repetition rate and time postdrug, **403**, 72
- Church, R.M., see Olton, D.S., **404**, 180
- Church, W.H., Justice Jr., J.B. and Neill, D.B.
Detecting behaviorally relevant changes in extracellular dopamine with microdialysis, **412**, 397
- Cianci, T., see Lenzi, P., **415**, 14
- Ciaranello, R.D., see Bowersox, S.S., **402**, 44
- Ciaranello, R.D., see Todd, R.D., **400**, 247
- Ciaranello, R.D., see Wong, D.L., **410**, 32
- Ciriello, J., see Elisevich, K., **408**, 227
- Ciriello, J., see Bachoo, M., **400**, 377
- Ciriello, J., see Mogenson, G.J., **404**, 221
- Clark, K., see Bignami, A., **409**, 143
- Clark, C.R., see MacLusky, N.J., **422**, 83
- Clarke, D., Ramaswamy, A., Holmes, L., Mudd, L., Poulakos, J. and Raizada, M.K.
Phorbol esters stimulate 2-deoxyglucose uptake in glia, but not neurons, **421**, 358
- Clarke, D.W., see Masters, B.A., **417**, 247
- Clarke, W.P., De Vivo, M., Beck, S.G., Maayani, S. and Goldfarb, J.
Serotonin decreases population spike amplitude in hippocampal cells through a pertussis toxin substrate, **410**, 357
- Clemens, L.G., see Wee, B.E.F., **424**, 305
- Clements, J.R., Monaghan, P.L. and Beitz, A.J.
An ultrastructural description of glutamate-like immunoreactivity in the rat cerebellar cortex, **421**, 343
- Clemo, H.R. and Stein, B.E.
Responses to direction of stimulus movement are different for somatosensory and visual cells in cat superior colliculus, **405**, 313
- Clerc, N. and Condamine, M.
Selective labeling of vagal sensory nerve fibers in the lower esophageal sphincter with anterogradely transported WGA-HRP, **424**, 216
- Clevers, J., see McKinley, M.J., **420**, 375
- Clot, A.M., see Le Bars, D., **402**, 188
- Clot, A.M., see Le Bars, D., **412**, 190
- Cobbett, P. and Mason, W.T.
Whole cell voltage clamp recordings from cultured neurons of the supraoptic area of neonatal rat hypothalamus, **409**, 175
- Cobbey, K., see Marks, G.A., **418**, 76
- Cocco, E., see Panerai, A.E., **410**, 52
- Code, R.A., Seroogy, K.B. and Fallon, J.H.
Some transforming growth factor- α connections and their colocalization with enkephalin in the rat central nervous system, **421**, 401
- Coderre, T.J. and Melzack, R.
Cutaneous hyperalgesia: contributions of the peripheral and central nervous systems to the increase in pain sensitivity after injury, **404**, 95
- Coffield, J.A. and Miletic, V.
Immunoreactive enkephalin is contained within some trigeminal and spinal neurons projecting to the rat medial thalamus, **425**, 380
- Coggeshall, R.E., see Hulsebosch, C.E., **411**, 267
- Coggeshall, R.E., see Jenq, C.-B., **406**, 52
- Coggeshall, R.E., see Jenq, C.-B., **408**, 239
- Coggeshall, R.E., see Jenq, C.-B., **409**, 250
- Coghlan, J.P., see Wang, X., **436**, 199

- Cohen, G., see Slivka, A., **409**, 275
- Cohen, H.L., Gootman, P.M., Steele, A.M., Eberle, L.P. and Rao, P.P.
Age-related changes in power spectra of efferent phrenic activity in the piglet, **426**, 179
- Cohen, L.B., see Kauer, J.S., **418**, 255
- Cohen, M.I., see See, W.R., **421**, 363
- Cohen, M.I., See, W.R., Christakos, C.N. and Sica, A.L.
High-frequency and medium-frequency components of different inspiratory nerve discharges and their modification by various inputs, **417**, 148
- Cohen, M.S., Schwartz-Giblin, S. and Pfaff, D.W.
Brainstem reticular stimulation facilitates back muscle motoneuronal responses to pudendal nerve input, **405**, 155
- Cohen, M.S., Schwartz-Giblin, S. and Pfaff, D.W.
Effects of total and partial spinal transections on the pudendal nerve-evoked response in rat lumbar axial muscle, **401**, 103
- Cohen, R.S., see Shah, J., **419**, 1
- Cohen-Becker, I., see Osterburg, H.H., **409**, 31
- Coiro, V., see Chiodera, P., **420**, 178
- Coleman, P.D., see Flood, D.G., **402**, 205
- Coleman, P.D., see Flood, D.G., **409**, 88
- Colle, L.M. and Wise, R.A.
Opposite effects of unilateral forebrain ablations on ipsilateral and contralateral hypothalamic self-stimulation, **407**, 285
- Collier, T.J., Quirk, G.J. and Routtenberg, A.
Separable roles of hippocampal granule cells in forgetting and pyramidal cells in remembering spatial information, **409**, 316
- Collier, T.J., Redmond Jr., D.E., Sladek, C.D., Gallagher, M.J., Roth, R.H. and Sladek Jr., J.R.
Intracerebral grafting and culture of cryopreserved primate dopamine neurons, **436**, 363
- Collier, T.J., see Phelps, C.J., **411**, 108
- Collier, T.J., see Silverman, W.F., **412**, 375
- Collins, J.F., see Butcher, S.P., **419**, 294
- Collins, J.G.
A descriptive study of spinal dorsal horn neurons in the physiologically intact, awake, drug-free cat, **416**, 34
- Collins, J.G.
Inhibition of spontaneous activity of spinal dorsal horn neurons in the intact cat is naloxone-insensitive, **401**, 95
- Collu, R. and Bouvier, C.
Effects of sulpiride and apomorphine on prolactin release in adrenalectomized animals. Role of sodium ions, **401**, 23
- Colom, L.V. and Bland, B.H.
State-dependent spike train dynamics of hippocampal formation neurons: evidence for theta-on and theta-off cells, **422**, 277
- Colom, L.V., Ford, R.D. and Bland, B.H.
Hippocampal formation neurons code the level of activation of the cholinergic septohippocampal pathway, **410**, 12
- Colpaert, F.C., see Millan, M.J., **416**, 349
- Colton, C.A., see Dickman, J.D., **400**, 365
- Colton, J.S., see Dickman, J.D., **400**, 365
- Comincio, V., see Rindi, G., **413**, 23
- Commings, D.L., Axt, K.J., Vosmer, G. and Seiden, L.S.
5,6-Dihydroxytryptamine, a serotonergic neurotoxin, is formed endogenously in the rat brain, **403**, 7
- Commings, D.L., Axt, K.J., Vosmer, G. and Seiden, L.S.
Endogenously produced 5,6-dihydroxytryptamine may mediate the neurotoxic effects of para-chloroamphetamine, **419**, 253
- Condamine, M., see Clerc, N., **424**, 216
- Congiu, M., see Wang, X., **436**, 199
- Conn, P.J., Janowsky, A. and Sanders-Bush, E.
Denervation supersensitivity of 5-HT-1c receptors in rat choroid plexus, **400**, 396
- Connor, J.R. and Bernstein, J.J.
Astrocytes in rat fetal cerebral cortical homographs following implantation into adult rat spinal cord, **409**, 62
- Consolazione, A., see Lombardi, G., **411**, 275
- Conte, B., see Maggi, C.A., **415**, 1
- Contestabile, A., see Bissoli, R., **405**, 380
- Contos, N., see Berkley, K.J., **414**, 49
- Contos, N., see Elam, J.S., **413**, 129
- Cooper, P.M., see Pivik, R.T., **423**, 196
- Corazza, R., see Biral, G.P., **412**, 43
- Corcoran, M.E., see Lewis, J., **403**, 205
- Corneliusson, O., Berthold, C.-H. and Fredman, P.
Isolation of myelinoid Marchi-positive bodies from normal rabbit spinal cord, **416**, 43
- Cornett, C.M., see Glotzbach, S.F., **419**, 279
- Corradetti, R., Ruggiero, M., Chiarugi, V.P. and Pepeu, G.
GABA-receptor stimulation enhances norepinephrine-induced polyphosphoinositide metabolism in rat hippocampal slices, **411**, 196
- Corson, D.W. and Fein, A.
Inositol 1,4,5-trisphosphate induces bursts of calcium release inside *Limulus* ventral photoreceptors, **423**, 343
- Cortés, R., see Palacios, J.M., **419**, 65
- Cortés, R., see Reubi, J.C., **406**, 391
- Cosenza-Murphy, D., see Mariani, A.P., **415**, 153
- Cossu, M., Martelli, A., Pau, A., Schrbundt Viale, E., Siccardi, D. and Viale, G.L.
Axonal elongation into peripheral nerve grafts between thalamus and somatosensory cortex of the rat. An experimental model, **415**, 399
- Costa, E., see Nicoletti, F., **436**, 103
- Cotman, C.W., see Anderson, K.J., **411**, 172
- Cotman, C.W., see Bridges, R.J., **415**, 163
- Cotman, C.W., see Harris, E.W., **418**, 361
- Cotman, C.W., see Rosenblatt, D.E., **415**, 40
- Cottingham, S.L. and Pfaff, D.W.
Electrical stimulation of the midbrain central gray facilitates lateral vestibulospinal activation of back muscle EMG in the rat, **421**, 397
- Cotton, R.G.H., see Haan, E.A., **426**, 19
- Cottrell, G.A. and Robertson, H.A.
Prevention of cysteamine-induced myoclonus blocks the long-term inhibition of kindled seizures, **412**, 161
- Cottrell, J.E., see Bendo, A.A., **403**, 136
- Couraud, F., see Seagar, M.J., **411**, 220
- Court, L., see Gourmelon, P., **411**, 391
- Coventry, B., see Gibbins, I.L., **414**, 143
- Cowan, W.M., see Boss, B.D., **406**, 280
- Cox, B.F., see Janss, A.J., **405**, 140
- Cox-Van Put, J., see Sandor, P., **424**, 189
- Coyle, J.T., see Blakely, R.D., **402**, 373
- Crabbe, J.C., see Goldman, D., **420**, 220
- Craig, R., see Casey, K.L., **408**, 377
- Crain, B., see Crain, S.M., **400**, 185
- Crain, B.J., Chang, K.-J. and McNamara, J.O.
An in vitro autoradiographic analysis of mu and delta opioid binding in the hippocampal formation of kindled rats, **412**, 343
- Crain, S.M., Crain, B. and Makman, M.H.
Pertussis toxin blocks depressant effects of opioid, monoaminergic and muscarinic agonists on dorsal-horn network responses in spinal cord-ganglion cultures, **400**, 185
- Crawford, G.D., see Matthews, D.A., **402**, 30
- Crawford, R.D., see Pedder, S.C.J., **424**, 139
- Crawley, J.N., see Blumstein, L.K., **404**, 293
- Crawley, J.N., see Kaltwasser, M.-T., **426**, 1
- Crepel, F., see Penit-Soria, J., **425**, 263
- Crepel, F., see Hamon, B., **419**, 379

- Crescimanno, G., see Piazza, P.V., **413**, 356
- Croll, R.P.
Distribution of monoamines in the central nervous system of the nudibranch gastropod, *Hermisenda crassicornis*, **405**, 337
- Cross, A.J., Hille, C. and Slater, P.
Subtraction autoradiography of opiate receptor subtypes in human brain, **418**, 343
- Cruciani, R.A., see Aiso, M., **408**, 281
- Crunelli, V., see Dinan, T.G., **407**, 159
- Crusio, W.E., Schwegler, H. and Lipp, H.-P.
Radial-maze performance and structural variation of the hippocampus in mice: a correlation with mossy fibre distribution, **425**, 182
- Csillag, A., see Stewart, M.G., **426**, 69
- Csillag, A., Stewart, M.G. and Curtis, E.M.
GABAergic structures in the chick telencephalon: GABA immunocytochemistry combined with light and electron microscope autoradiography, and Golgi impregnation, **437**, 283
- Cubells, J.F., Blanchard, J.S. and Makman, M.H.
The effects of in vivo inactivation of GABA-transaminase and glutamic acid decarboxylase on levels of GABA in the rat retina, **419**, 208
- Cudennec, A., Duverger, D., Lloyd, K.G., MacKenzie, E.T., McCulloch, J., Motohashi, N., Nishikawa, T. and Scatton, B.
Effects of the GABA receptor agonist, progabide, upon local cerebral glucose utilization, **423**, 162
- Cuello, A.C., see Haan, E.A., **426**, 19
- Cull-Candy, S.G. and Usowicz, M.M.
Glutamate and aspartate activated channels and inhibitory synaptic currents in large cerebellar neurons grown in culture, **402**, 182
- Cullheim, S., see Ulfhake, B., **419**, 387
- Cummings, S., see Sharp, B.M., **422**, 361
- Cupello, A., see Hydén, H., **404**, 405
- Cupo, A., see Eybalin, M., **418**, 189
- Cupo, A., see Vion-Dury, J., **408**, 243
- Currie, S.N. and Ayers, J.
Plasticity of fin command system function following spinal transection in larval sea lamprey, **415**, 337
- Curtis, D.R. and Gynther, B.D.
Divalent cations reduce depolarization of primary afferent terminations by GABA, **422**, 192
- Curtis, D.R., see Kerr, D.I.B., **405**, 150
- Curtis, E.M., see Csillag, A., **437**, 283
- Cutcliffe, N. and Osborne, N.N.
Serotonergic and cholinergic stimulation of inositol phosphate formation in the rabbit retina. Evidence for the presence of serotonin and muscarinic receptors, **421**, 95
- Cynader, M.S., see Gardner, J.C., **413**, 60
- Cynader, M.S., see Prusky, G.T., **412**, 131
- Czech, D.A., see Blake, M.J., **413**, 111
- Członkowski, A., see Millan, M.J., **407**, 199
- Czonkowski, A., see Millan, M.J., **435**, 97
- Czopf, J., see Buzsáki, G., **400**, 334
- Czudek, C., see Fine, A., **406**, 326
- ## D
- Dagan, D., see Ram, J.L., **405**, 16
- Dahl, D., see Bologna, L., **411**, 282
- Dale, N., see Buchanan, J.T., **408**, 321
- Daley III, J.C., see Stanton, T.L., **413**, 350
- Dallman, M.F., see Cascio, C.S., **423**, 173
- Dall'Olio, R., see Lombardi, G., **411**, 275
- Dalsass, M. and Siegel, A.
The bed nucleus of the stria terminalis: electrophysiological properties and responses to amygdaloid and hypothalamic stimulation, **425**, 346
- Dal Toso, G., see De Simoni, M.G., **411**, 81
- Dal Toso, G., see De Simoni, M.G., **411**, 89
- Dam, M., see Weissman, A.D., **435**, 29
- D'Amelio, F.E., Mehler, W.R., Gibbs, M.A., Eng, L.F. and Wu, J.-Y.
Immunocytochemical localization of glutamic acid decarboxylase (GAD) and glutamine synthetase (GS) in the area postrema of the cat. Light and electron microscopy, **410**, 232
- Dandona, P., see Jeremy, J., **419**, 364
- D'Angio, M., Serrano, A., Rivy, J.P. and Scatton, B.
Tail-pinch stress increases extracellular DOPAC levels (as measured by in vivo voltammetry) in the rat nucleus accumbens but not frontal cortex: antagonism by diazepam and zolpidem, **409**, 169
- Daniel, H., see Batini, C., **403**, 186
- Dann, R., see Kushner, M.J., **409**, 79
- Dario, P., see Aebischer, P., **436**, 165
- Dark, J., Dark, K.A. and Zucker, I.
Long day lengths increase brain weight and DNA content in the meadow vole, *Microtus pennsylvanicus*, **409**, 302
- Dark, K.A., see Dark, J., **409**, 302
- Darlington, D.N., see Ward, D.G., **407**, 369
- Darlington, D.N., see Ward, D.G., **423**, 373
- Darracq, C., see Cazala, P., **416**, 283
- Daunicht, W.J. and Pellionisz, A.J.
Spatial arrangement of the vestibular and the oculomotor system in the rat, **435**, 48
- Dauzvardis, M.F., see Kartje-Tillotson, G., **415**, 172
- Daval, J.-L., see Nehlig, A., **419**, 272
- Davenne, D. and Adrien, J.
Lesion of the ponto-geniculo-occipital pathways in kittens. I. Effects on sleep and on unitary discharge of the lateral geniculate nucleus, **409**, 1
- Davenne, D., see Krueger, J.M., **403**, 249
- Davenne, D., see Krueger, J.M., **403**, 258
- Davidoff, R.A., see Hackman, J.C., **407**, 94
- Davidson, M., see McKinnon, G., **416**, 90
- Davidsson, P., Karlsson, B. and Svennerholm, L.
Glycoprotein pattern in human brain tumors studied using lectin binding after sodium dodecyl sulfate-gel electrophoresis and protein blotting, **412**, 254
- Davies, M.F., Deisz, R.A., Prince, D.A. and Peroutka, S.J.
Two distinct effects of 5-hydroxytryptamine on single cortical neurons, **423**, 347
- Davies, M.F., Sasaki, S.E. and Carlen, P.L.
Benzodiazepine-induced epileptiform activity in vitro, **437**, 239
- Davies, S.N. and Lodge, D.
Evidence for involvement of N-methylaspartate receptors in 'wind-up' of class 2 neurones in the dorsal horn of the rat, **424**, 402
- Davis, M., see Kehne, J.H., **406**, 87
- Davis, B.J., Blair, M.L., Sladek Jr., J.R. and Sladek, C.D.
Effects of lesions of hypothalamic catecholamines on blood pressure, fluid balance, vasopressin and renin in the rat, **405**, 1
- Davis, J.L. and Pico, R.M.
A tripeptide protease inhibitor attenuates conditioned avoidance behavior, **406**, 10
- Davis, K.L., see Haroutunian, V., **403**, 234
- Davis, L.G., see Blumstein, L.K., **404**, 293
- Davison, J.S., see MacVicar, B.A., **406**, 130
- Dawson, T.M., see Byerley, W.F., **421**, 377
- Dawson, T.M., see Filloux, F.M., **408**, 205
- De Belleruche, J., see Gardiner, I.M., **407**, 263
- De Blas, A.L. and Sotelo, C.
Localization of benzodiazepine-like molecules in the rat brain. A light and electron microscopy immunocytochemistry study with an

- anti-benzodiazepine monoclonal antibody, **413**, 285
- De Blas, A.L., Park, D. and Friedrich, P.
Endogenous benzodiazepine-like molecules in the human, rat and bovine brains studied with a monoclonal antibody to benzodiazepines, **413**, 275
- De Graan, P.N.E., Schrama, L.H., Brussaard, A.B., Jork, R. and Gispen, W.H.
4-Aminopyridine affects synaptosomal protein phosphorylation in rat hippocampal slices, **404**, 345
- De Jersey, J., see McKinnon, G., **416**, 90
- De Jong, W., see Luković, L., **422**, 312
- De Jong, W., see Sandor, P., **424**, 189
- De Jonge, M. and Racine, R.J.
The development and decay of kindling-induced increases in paired-pulse depression in the dentate gyrus, **412**, 318
- De Kloet, E.R., see Joëls, M., **403**, 192
- De Kloet, E.R., see Van Eekelen, J.A.M., **436**, 120
- De la Roza, C., see Satorre, J., **404**, 231
- DeLanney, L.E., see Ricaurte, G.A., **403**, 43
- De Montis, G., see Porceddu, M.L., **424**, 264
- DeMyer, W., see Smith, G.N., **400**, 399
- De Nicola, A.F., see Moses, D.F., **408**, 118
- De Prins, E., see Reid, K.H., **404**, 361
- De Quidt, M., see Fine, A., **406**, 326
- De Ruiter, J.P. and Uylings, H.B.M.
Morphometric and dendritic analysis of fascia dentata granule cells in human aging and senile dementia, **402**, 217
- De Simoni, M.G., Dal Toso, G., Fodritto, F., Sokola, A. and Algeri, S.
Modulation of striatal dopamine metabolism by the activity of dorsal raphe serotonergic afferences, **411**, 81
- De Simoni, M.G., Sokola, A., Fodritto, F., Dal Toso, G. and Algeri, S.
Functional meaning of tryptophan-induced increase of 5-HT metabolism as clarified by in vivo voltammetry, **411**, 89
- DeSouza, E.B., see Cadet, J.L., **437**, 383
- DeSouza, E.B., see Powers, R.E., **415**, 347
- DeSouza, E.B., Whitehouse, P.J., Folstein, S.E., Price, D.L. and Vale, W.W.
Corticotropin-releasing hormone (CRH) is decreased in the basal ganglia in Huntington's disease, **437**, 355
- De Vellis, J., see Aizenman, Y., **406**, 32
- De Vellis, J., see Aizenman, Y., **414**, 301
- De Vellis, J., see Wu, D.K., **421**, 186
- De Vente, J., Garssen, J., Tilders, F.J.H., Steinbusch, H.W.M. and Schipper, J.
Single cell quantitative immunocytochemistry of cyclic GMP in the superior cervical ganglion of the rat, **411**, 120
- De Vivo, M., see Clarke, W.P., **410**, 357
- De Wied, D., see Luković, L., **422**, 312
- De Wied, D., see Sandor, P., **424**, 189
- Deadwyler, S.A., see Foster, T.C., **408**, 86
- Dean, P., see Redgrave, P., **413**, 170
- Dean, J.B., see Lawing, W.L., **435**, 322
- DeBin, J.A., see Chiappinelli, V.A., **402**, 21
- Debono, M., see Hamon, B., **419**, 379
- Decker, M.W. and Gallagher, M.
Scopolamine-disruption of radial arm maze performance: modification by noradrenergic depletion, **417**, 59
- DeGirolami, U., see Zivin, J.A., **435**, 305
- Deisz, R.A. and Prince, D.A.
Effect of D890 on membrane properties of neocortical neurons, **422**, 63
- Deisz, R.A., see Davies, M.F., **423**, 347
- Dekker, N.P., see LaVail, J.H., **404**, 127
- Del Pilar Gutierrez, M., see Neary, J.T., **410**, 164
- Del Pilar Gutierrez, M., see Neary, J.T., **437**, 161
- Delaney, C.E., see Thornton, S.N., **437**, 339
- Delay-Goyet, P., see Waksman, G., **436**, 205
- Delay-Goyet, P., Zajac, J.-M., Javoy-Agid, F., Agid, Y. and Roques, B.P.
Regional distribution of μ , δ and κ opioid receptors in human brains from controls and parkinsonian subjects, **414**, 8
- Delbende, C., Jégou, S., Tranchand-Bunel, D., Pelletier, G. and Vaudry, H.
Hypothalamic α -melanocyte-stimulating hormone (α -MSH) is not under dopaminergic control, **423**, 203
- Delbende, C., see Jégou, S., **413**, 259
- Delbos, M., see Vanhems, E., **411**, 129
- Delgado, T., see Sahlin, C., **403**, 313
- Delhay-Bouchaud, N., see Mariani, J., **421**, 211
- Delhay-Bouchaud, N., see Mulle, C., **421**, 194
- Della-Fera, M.A., see Miceli, M.O., **402**, 318
- Dellabella, D., see Reggiani, A., **423**, 254
- DeLong, M.R., see Kitt, C.A., **406**, 192
- Delree, P., see Lefebvre, P.P., **413**, 120
- Delville, Y., see Deviche, P., **421**, 105
- DeMattei, M., see Fariello, R.G., **426**, 373
- Demenge, P., see Paturle, L., **402**, 383
- Dement, W.C., see Bowersox, S.S., **402**, 44
- Demura, H., see Suda, T., **405**, 247
- Denavit-Saubié, M., see Foutz, A.S., **404**, 10
- Denton, D.A., see Osborne, P.G., **412**, 36
- Denton, D.A., see Weisinger, R.S., **420**, 135
- Depaulis, A., Morgan, M.M. and Liebeskind, J.C.
GABAergic modulation of the analgesic effects of morphine microinjected in the ventral periaqueductal gray matter of the rat, **436**, 223
- Depaulis, A., see Morgan, M.M., **423**, 395
- Deprez, P., see Seagar, M.J., **411**, 226
- D'Eramo J.L., see Kertesz, E., **413**, 10
- Derby, C.D., Ache, B.W. and Carr, W.E.S.
Purineric modulation in the brain of the spiny lobster, **421**, 57
- De Salles, A.A.F., see Leichnetz, G.R., **416**, 195
- De Salles, A.A.F., see Leichnetz, G.R., **422**, 389
- Desan, P.H., Gruberg, E.R., Grewell, K.M. and Eckenstein, F.
Cholinergic innervation of the optic tectum in the frog *Rana pipiens*, **413**, 344
- Descarries, L., see Soghomonian, J.-J., **425**, 85
- Desroches, A., see Weidner, C., **419**, 357
- Desroches, A.-M., see Weidner, C., **436**, 153
- Désy, L., see Pelletier, G., **423**, 247
- Detoledo-Morrell, L., see Geinisman, Y., **422**, 352
- Detoledo-Morrell, L., see Geinisman, Y., **423**, 179
- Détári, L. and Vanderwolf, C.H.
Activity of identified cortically projecting and other basal forebrain neurones during large slow waves and cortical activation in anaesthetized rats, **437**, 1
- Deutch, A.Y., Bean, A.J., Bissette, G., Nemeroff, C.B., Robbins, R.J. and Roth, R.H.
Stress-induced alterations in neurotensin, somatostatin and corticotropin-releasing factor in mesolencephalic dopamine system regions, **417**, 350
- Deutch, A.Y., see Elsworth, J.D., **415**, 293
- Deutsch, S.I., see Miller, L.G., **414**, 395
- Deviche, P., Delville, Y. and Balthazart, J.
Central and peripheral metabolism

- of 5 α -dihydrotestosterone in the male Japanese quail: biochemical characterization and relationship with reproductive behavior, **421**, 105
- Devor, M.L., see Lisney, S.J.W., **415**, 122
- DeVries, G.H., see Sprinkle, T.J., **426**, 349
- Dey, P.K., see Sharma, H.S., **424**, 153
- Di Fabio, R.P.
Lower extremity antagonist muscle response following standing perturbation in subjects with cerebrovascular disease, **406**, 43
- Di Fonso, F., see Rius, R.A., **402**, 359
- Di Loreto, S., see Scarnati, E., **423**, 116
- Diana, G., see Orzi, F., **423**, 144
- DiBona, G.F., see Koepke, J.P., **404**, 80
- Dick, T.E., see Holtman Jr., J.R., **417**, 12
- Dickenson, A.H., see Knox, R.J., **415**, 21
- Dickenson, A.H., Sullivan, A.F., Fournie-Zaluski, M.C. and Roques, B.P.
Prevention of degradation of endogenous enkephalins produces inhibition of nociceptive neurones in rat spinal cord, **408**, 185
- Dickenson, A.H., Sullivan, A.F., Knox, R., Zajac, J.M. and Roques, B.P.
Opioid receptor subtypes in the rat spinal cord: electrophysiological studies with μ - and δ -opioid receptor agonists in the control of nociception, **413**, 36
- Dickman, J.D., Colton, J.S., Chiszar, D. and Colton, C.A.
Trigeminal responses to thermal stimulation of the oral cavity in rattlesnakes (*Crotalus viridis*) before and after bilateral anesthetization of the facial pit organs, **400**, 365
- Dieringer, N.
The role of compensatory eye and head movements for gaze stabilization in the unrestrained frog, **404**, 33
- Dietrich, W.D., see Vibulsreth, S., **422**, 303
- Diez-Guerra, F.J., Bicknell, R.J., Mansfield, S., Emson, P.C. and Dyer, R.G.
Effect of neonatal testosterone upon opioid receptors and the content of β -endorphin, neuropeptide Y and neurotensin in the medial preoptic and the mediobasal hypothalamic areas of the rat brain, **424**, 225
- Diez-Guerra, F.J., see Grossmann, R., **415**, 205
- DiMicco, J.A. and Abshire, V.M.
Evidence for GABAergic inhibition of a hypothalamic sympathoexcitatory mechanism in anesthetized rats, **402**, 1
- DiMicco, J.A., see Shekhar, A., **420**, 118
- Dinan, T.G., Crunelli, V. and Kelly, J.S.
Neuroleptics decrease calcium-activated potassium conductance in hippocampal pyramidal cells, **407**, 159
- Dinareello, C.A., see Naylor, A.M., **401**, 173
- Dionne, R.A., see Hargreaves, K.M., **422**, 154
- Diop, L., Brière, R., Grondin, L. and Reader, T.A.
Adrenergic receptor and catecholamine distribution in rat cerebral cortex: binding studies with [3 H]prazosin, [3 H]idazoxan and [3 H]dihydroalprenolol, **402**, 403
- Distasi, C., see Simonneau, M., **412**, 224
- Distel, H., see Hudson, R., **421**, 85
- Divac, I., see Jørgensen, O.S., **405**, 39
- Diz, D.I., see Averill, D.B., **414**, 294
- Dluzen, D.E. and Ramirez, V.D.
Intermittent infusion of progesterone potentiates whereas continuous infusion reduces amphetamine-stimulated dopamine release from ovariectomized estrogen-primed rat striatal fragments superfused in vitro, **406**, 1
- Do, K.Q., see Turski, W.A., **414**, 330
- Doering, L.C. and Aguayo, A.J.
Hirano bodies and other cytoskeletal abnormalities develop in fetal rat CNS grafts isolated for long periods in peripheral nerve, **401**, 178
- Doi, A., see Matsui, H., **402**, 193
- Dolabela de Lima, A., see Stichel, C.C., **405**, 395
- Dolphin, A.C., see Prestwich, S.A., **405**, 130
- Domenici, C., see Aebischer, P., **436**, 165
- Domino, E.F., see Pohorecki, R., **420**, 199
- Donaldson, S.R., see Guyenet, P.G., **407**, 272
- Donnan, G.A., see Willis, G.L., **402**, 269
- Donnelly, D.F., Nolan, W.F., Smith, E.J. and Dutton, R.E.
Effect of dopamine antagonism on carotid chemoreceptor interspike intervals, **407**, 195
- Donnelly, D.F., see Sica, A.L., **408**, 222
- Donoghue, J.P. and Carroll, K.L.
Cholinergic modulation of sensory responses in rat primary somatic sensory cortex, **408**, 367
- Dooley, D.J., Jones, G.H. and Robbins, T.W.
Noradrenaline- and time-dependent changes in neocortical α_2 - and β_1 -adrenoceptor binding in dorsal noradrenergic bundle-lesioned rats, **420**, 152
- Doron, A., see Lavie, V., **419**, 166
- Doucet, G., see Soghomonian, J.-J., **425**, 85
- Doucette, R. and Ball, M.J.
Left-right symmetry of neuronal cell counts in the nucleus basalis of Meynert of control and of Alzheimer-diseased brains, **422**, 357
- Douglas, R., Kellaway, L., Mintz, M. and Van Wagoningen, G.
The crossed nigrostriatal projection decussates in the ventral tegmental decussation, **418**, 111
- Dowling, J.E., see Eldred, W.D., **424**, 361
- Drachman, D.B., see Pestronk, A., **412**, 302
- Dragunow, M. and Robertson, H.A.
8-Cyclopentyl 1,3-dimethylxanthine prolongs epileptic seizures in rats, **417**, 377
- Dray, F., see Gerozissis, K., **416**, 54
- Dreifuss, J.J., see Dubois-Dauphin, M., **437**, 151
- Drescher, D.G., see Drescher, M.J., **417**, 39
- Drescher, M.J., Drescher, D.G. and Hatfield, J.S.
Potassium-evoked release of endogenous primary amine-containing compounds from the trout saccular macula and saccular nerve in vitro, **417**, 39
- Drewes, L.R., Mies, G., Hossmann, K.-A. and Stöcklin, G.
Blood-brain transport and regional distribution of bromo-benzodiazepine, **401**, 55
- Drewes, L.R., see Fatehi, M.I., **415**, 30
- Dreyfus, C.F., see Martínez, H.J., **412**, 295
- Drucker-Colín, R., see Arankowsky-Sandoval, G., **400**, 155
- Drucker-Colín, R., see Bermúdez-Rattoni, F., **416**, 147
- Drucker-Colín, R., see García-Hernández, F., **418**, 193
- Du Pont, J.S.
Firing patterns of bulbar respiratory neurones during sniffing in the conscious, non-paralyzed rabbit, **414**, 163
- Duara, R., see Horwitz, B., **407**, 294
- Dubner, R., see Hylden, J.L.K., **411**, 341
- Dubner, R., see Hargreaves, K.M., **422**, 154
- Dubois-Dauphin, M., Tribollet, E. and Dreifuss, J.J.
A sexually dimorphic vasopressin innervation of auditory pathways in the guinea pig brain, **437**, 151
- Duffin, J. and Hoskin, R.W.
Intracellular recordings from upper cervical inspiratory neurons in the cat, **435**, 351
- Duffy, K.R. and Pardridge, W.M.
Blood-brain barrier transcytosis of insulin in developing rabbits, **420**, 32
- Duggan, A.W., Morton, C.R., Zhao, Z.Q. and Hendry, I.A.
Noxious heating of the skin releases immunoreactive substance P in the substantia gelatinosa of the cat: a study with antibody microprobes, **403**, 345

- Duman, R.S., see Nomura, S., **410**, 195
- Dun, N.J., see Mo, N., **400**, 139
- Duncan, G.E., Stumpf, W.E. and Pilgrim, C.
Cerebral metabolic mapping at the cellular level with dry-mount autoradiography of [^3H]2-deoxyglucose, **401**, 43
- Duncan, I.D., Hammang, J.P. and Jackson, K.F.
Myelin mosaicism in female heterozygotes of the canine shaking pup and myelin-deficient rat mutants, **402**, 168
- Duncan, I.D., see Blakemore, W.F., **403**, 361
- Dundore, R.L., Worpel, J.N.D., Balaban, C.D., Harrison, T.S., Keil, L.C., Seaton, J.F. and Severs, W.B.
Site-dependent central effects of aldosterone in rats, **401**, 122
- Dunn, J.D.
Plasma corticosterone responses to electrical stimulation of the bed nucleus of the stria terminalis, **407**, 327
- Dunn-Meynell, A.A., see Burmeister, D.W., **423**, 56
- Dunnett, S.B., Whishaw, I.Q., Rogers, D.C. and Jones, G.H.
Dopamine-rich grafts ameliorate whole body motor asymmetry and sensory neglect but not independent limb use in rats with 6-hydroxydopamine lesions, **415**, 63
- Dunwiddie, T.V., see Brodie, M.S., **415**, 323
- Dunwiddie, T.V., see Brodie, M.S., **425**, 106
- Dunwiddie, T.V., see Proctor, W.R., **426**, 187
- Durkin, T., see Caudarella, M., **435**, 202
- Dutar, P., Rascol, O., Jobert, A. and Lamour, Y.
Modulation of the excitability of septohippocampal terminals in the rat: relation to neuronal discharge rate, **418**, 98
- Dutar, P., see Lamour, Y., **416**, 277
- Dutton, R.E., see Donnelly, D.F., **407**, 195
- Duverger, D., see Cudennec, A., **423**, 162
- Dyck, P.J., see Schenone, A.E., **402**, 151
- Dyer, R.G., see Diez-Guerra, F.J., **424**, 225
- Dyer, R.G., see Grossmann, R., **415**, 205
- Dyer, R.S., see Tilson, H.A., **408**, 163
- Circadian vasopressin release from perfused rat suprachiasmatic explants in vitro: effects of acute stimulation, **422**, 398
- Earnest, D.J., see Keefe, D.L., **403**, 308
- Ebbesson, S.O.E., Bazer, G.T., Bailey, R.P., Reynolds, J.B. and Smith, J.E.
Changes with age in total brain concentrations of biogenic amine neurotransmitters in coho salmon (*Oncorhynchus kisutch* Walbaum), **405**, 175
- Eberle, A.N., see Pelletier, G., **423**, 247
- Eberle, L.P., see Cohen, H.L., **426**, 179
- Ebihara, S., Hudson, D.J., Marks, T. and Menaker, M.
Pineal indole metabolism in the mouse, **416**, 136
- Ebner, T.J., see McDevitt, C.J., **425**, 1
- Ebner, T.J., see McDevitt, C.J., **425**, 14
- Ebner, T.J., see Rea, G.L., **418**, 58
- Ebner, T.J., see Wang, J.-J., **410**, 323
- Eckenrode, T.C., Barr, G.A., Battisti, W.P. and Murray, M.
Acetylcholine in the interpeduncular nucleus of the rat: normal distribution and effects of deafferentation, **418**, 273
- Eckenrode, T.C., see Barr, G.A., **418**, 301
- Eckstein, F., see Desan, P.H., **413**, 344
- Eckstein, F., see Kubota, Y., **413**, 179
- Eckstein, F., see Strassman, A., **423**, 293
- Eckert, M., see Holets, V.R., **408**, 141
- Eckland, D.J.A. and Lightman, S.L.
Neurotensin in hypothalamo-hypophyseal portal blood, **421**, 161
- Eden, A.R., see Gannon, P.J., **404**, 257
- Edeson, R.O., see Madsen, B.W., **402**, 387
- Edge, M.T., see Bradley, R.J., **425**, 401
- Edinger, H., see Barrett, J.A., **426**, 381
- Edmonds, B. and Koenig, E.
Powering of bulk transport (varicosities) and differential sensitivities of directional transport in growing axons, **406**, 288
- Edström, A., Ekström, P., Kanje, M. and Sjöberg, J.
The use of the regenerating frog sciatic nerve for pharmacological studies of orthograde and retrograde axonal transport, **401**, 34
- Edvinsson, L., see Hamel, E., **420**, 391
- Edwards, D.L., Poletti, C.E. and Foote, W.E.
Evidence for leucine-enkephalin immunoreactive neurons in the medulla which project to spinal cord in squirrel monkey, **437**, 197
- Edwards, P.M., see Verhaagen, J., **404**, 142
- Ehrlich, D., see Tung, N.N., **435**, 153
- Ehrlich, D., Teuchert, G. and Morgan, I.G.
Specific ganglion cell death induced by intravitreal kainic acid in the chicken retina, **415**, 342
- Eidelberg, E., see Brooks, B.A., **419**, 329
- Ekman, R., see Wahlestedt, C., **417**, 33
- Ekström, P., see Edström, A., **401**, 34
- Elam, J.S., Contos, N. and Berkley, K.J.
Differences in the efficiency and pattern of incorporation of [^3H]leucine and [^3H]proline into proteins of adult cat brain, **413**, 129
- Elde, R.P., see Appel, N.M., **415**, 137
- Eldred, W.D., Li, H., Carraway, R.E. and Dowling, J.E.
Immunocytochemical localization of LANT-6-like immunoreactivity within neurons in the inner nuclear and ganglion cell layers in vertebrate retinas, **424**, 361
- El Ganouni, S., Forni, C. and Nieoullon, A.
In vitro and in vivo characterization of the properties of a multifiber carbon electrode allowing long-term electrochemical detection of dopamine in freely moving animals, **404**, 239
- Eliasz, M., see Nordström, Ö., **420**, 371
- Elidan, J., Langhofer, L. and Honrubia, V.
The neural generators of the vestibular evoked response, **423**, 385
- Elisevich, K., Caverson, M.M., Flumerfelt, B.A., Hryciashyn, A.W. and Ciriello, J.
Collateral branching in axonal projections to spinal cord from paramedian reticular nucleus neurons, **408**, 227
- Ellis, J., see Weiss, S., **414**, 390
- Ellison, D.W., Beal, M.F. and Martin, J.B.
Phosphoethanolamine and ethanolamine are decreased in Alzheimer's disease and Huntington's disease, **417**, 389
- El Mestikawy, S., see Soubrie, P., **437**, 323
- Elsworth, J.D., Deutch, A.Y., Redmond Jr., D.E., Sladek Jr., J.R. and Roth, R.H.
Effects of 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP) on catecholamines and metabolites in primate brain and CSF, **415**, 293
- Eltringham, L., see O'Byrne, K.T., **405**, 80
- Emanuele, N.V., Metcalfe, L., Lubrano, T., Rubinstein, H., Kirsteins, L. and Lawrence, A.M.
Subcellular distribution of hypothalamic prolactin-like immunoreactivity, **407**, 223

- Emanuele, N.V., Metcalfe, L., Wallock, L., Tentler, J., Hagen, T.C., Beer, C.T., Martinson, D., Gout, P.W., Kirsteins, L., and Lawrence, A.M. Extrahypothalamic brain prolactin: characterization and evidence for independence from pituitary prolactin, **421**, 255
- Emerick, S.G., see Hernandez, D.E., **401**, 381
- Emerick, S.G., see Hernandez, D.E., **420**, 129
- Emson, P.C., see Arai, H., **418**, 164
- Emson, P.C., see Diez-Guerra, F.J., **424**, 225
- Emson, P.C., see Kawai, Y., **409**, 371
- Emson, P.C., see Lee, Y., **407**, 149
- Endo, Y., see Kitamura, T., **423**, 189
- Endoh, H., see Shimoji, K., **408**, 385
- Eng, L.F., see D'Amelio, F.E., **410**, 232
- Eng, L.F., see Shiurba, R.A., **407**, 205
- Engel Jr., J., see Griffith, N., **400**, 360
- Enna, S.J., see Nomura, S., **410**, 195
- Ennis, M. and Aston-Jones, G. Two physiologically distinct populations of neurons in the ventrolateral medulla innervate the locus coeruleus, **425**, 275
- Erdö, S., see Napoleone, P., **423**, 109
- Ericson, E., see Marcusson, J.O., **425**, 137
- Eriksdotter-Nilsson, M., see Granholm, A.-C., **423**, 71
- Eriksson, S., see Simon-Oppermann, C., **424**, 163
- Errico, P., see Pettorossi, V.E., **403**, 58
- Erwin, V.G., Korte, A. and Marty, M. Neurotensin selectively alters ethanol-induced anesthesia in LS/Ibg and SS/Ibg lines of mice, **400**, 80
- Esiri, M.M., see Palmer, A.M., **401**, 231
- Eskay, R.L., see Kiss, A., **416**, 129
- Eskay, R.L., see Palkovits, M., **436**, 323
- Espinoza, S.G., see Thomas, H.C., **417**, 214
- Esposito, E., Cervo, L., Petrillo, P., Sbacchi, M., Tavani, A. and Samanin, R. Dopamine denervation of the nucleus accumbens induces a selective increase in the number of δ -opioid binding sites, **436**, 25
- Esquifino, A.I., see Fernandez-Ruiz, J.J., **421**, 65
- Eva, C., see Nicoletti, F., **436**, 103
- Evans, D. and Smith, J.C. Seizure activity and cortical spreading depression monitored by an extrinsic potential-sensitive molecular probe, **409**, 350
- Evans, M.L., see Jahan-Parwar, B., **426**, 173
- Everitt, B.J., see Hughes, A.M., **414**, 133
- Eybalin, M., Pujol, R. and Bockaert, J. Opioid receptors inhibit the adenylate cyclase in guinea pig cochleas, **421**, 336
- Eybalin, M., Rebillard, G., Jarry, T. and Cupo, A. Effect of noise level on the Met-enkephalin content of the guinea pig cochlea, **418**, 189
- Eyzaguirre, C., see Acker, H., **409**, 380
- F**
- Faber, D.S., see Chang, Y.T., **417**, 205
- Faber, D.S., see Zottoli, S.J., **401**, 113
- Fadda, E., see Nicoletti, F., **436**, 103
- Faden, A.I., see McIntosh, T.K., **425**, 225
- Fage, D., see Benavides, J., **421**, 167
- Fage, D., see Hamel, E., **420**, 391
- Fage, D., see Paturle, L., **402**, 383
- Faguet, G.B., see Sprinkle, T.J., **426**, 349
- Fahn, S., see Cadet, J.L., **437**, 383
- Faingold, C.L., see Caspary, D.M., **417**, 273
- Fallon, J.H., see Code, R.A., **421**, 401
- Famiglietti, E.V. and Tumosa, N. Immunocytochemical staining of cholinergic amacrine cells in rabbit retina, **413**, 398
- Famiglietti, E.V. Starburst amacrine cells in cat retina are associated with bistratified, presumed directionally selective, ganglion cells, **413**, 404
- Fanardjian, V.V. and Gorodnov, V.L. Electrophysiological peculiarities of cortical inputs to the cat red nucleus, **425**, 65
- Fanardjian, V.V., see Gorodnov, V.L., **410**, 340
- Fanciuilacci, M., see Maggi, C.A., **415**, 1
- Fanelli, R.J., Szikszay, M., Jasinski, D.R. and London, E.D. Differential effects of μ and κ opioid analgesics on cerebral glucose utilization in the rat, **422**, 257
- Fang, J., see Inase, M., **426**, 205
- Fang, F.G., Moreau, J.-L. and Fields, H.L. Dose-dependent antinociceptive action of neurotensin microinjected into the rostroventromedial medulla of the rat, **420**, 171
- Fang, X.-B. The population of the dorsal root ganglion cells which have central processes in ventral root and their immunoreactivity, **402**, 393
- Farabegoli, C., see Pich, E.M., **435**, 147
- Fares, F., Weizman, A., Zlotogorski, D. and Gavish, M. Ontogenetic development of peripheral benzodiazepine binding sites in rat brain, heart and lung, **408**, 381
- Fariello, R.G., DeMattei, M., Castorina, M., Ferraro, T.N. and Golden, G.T. MPTP and convulsive responses in rodents, **426**, 373
- Faris, P.L., see Scallet, A.C., **407**, 390
- Fass, B., see Ramirez, J.J., **414**, 85
- Fatehi, M.I., Gerhart, D.Z., Myers, T.G. and Drewes, L.R. Characterization of the blood-brain barrier: glycoconjugate receptors of 14 lectins in canine brain, cultured endothelial cells, and blotted membrane proteins, **415**, 30
- Fatranská, M., Budai, D., Opršalová, Z. and Kvetňanský, R. Acetylcholine and its enzymes in some brain areas of the rat under stress, **424**, 109
- Faull, K.F., see Bowersox, S.S., **402**, 44
- Faull, R.L.M., see McGeorge, A.J., **423**, 318
- Faull, R.L.M., Villiger, J.W. and Holford, N.H.G. Benzodiazepine receptors in the human cerebellar cortex: a quantitative autoradiographic and pharmacological study demonstrating the predominance of type I receptors, **411**, 379
- Feasby, T.E., Gilbert, J.J., Hahn, A.F. and Neilson, M. Complement depletion suppresses Lewis rat experimental allergic neuritis, **419**, 97
- Fedeli, R., see Pettorossi, V.E., **403**, 58
- Feder, H.H., see Bonneau, M., **413**, 104
- Fehlings, M.G., see Midha, R., **410**, 299
- Fein, A., see Corson, D.W., **423**, 343
- Feldman, P.D. and Moises, H.C. Adrenergic responses of baroreceptive cells in the nucleus tractus solitarius of the rat: a microiontophoretic study, **420**, 351
- Feldman, S.M., see Brown, L.L., **411**, 65
- Felix, D., see Harding, J.W., **410**, 130
- Felix, D., see Harding, J.W., **424**, 299
- Felix, D., see Imboden, H., **410**, 74
- Felix, D., see Imboden, H., **426**, 225
- Felsten, G., see Sved, A.F., **414**, 119
- Felten, D.L., see Gupta, M., **402**, 379
- Ferdico, M., see Piazza, P.V., **413**, 356
- Ferino, F., Thierry, A.M., Saffroy, M. and Glowinski, J. Interhemispheric and subcortical collaterals of medial prefrontal cortical neurons in the rat, **417**, 257
- Fernandez, A., see Stevens, B.R., **406**, 113
- Fernandez, B., see Tranque, P.A., **406**, 348
- Fernandez-Ruiz, J.J., Esquifino, A.I., Steger, R.W., Amador, A.G. and Bartke, A. Presence of tyrosine-hydroxylase

- activity in anterior pituitary adenomas and ectopic anterior pituitaries in male rats, **421**, 65
- Fernández, J., see Bermúdez-Rattoni, F., **416**, 147
- Fernstrom, J.D., see Fernstrom, M.H., **401**, 392
- Fernstrom, J.D., see Pastel, R.H., **436**, 92
- Fernstrom, M.H. and Fernstrom, J.D. Protein consumption increases tyrosine concentration and in vivo tyrosine hydroxylation rate in the light-adapted rat retina, **401**, 392
- Ferrante, R.J. and Kowall, N.W. Tyrosine hydroxylase-like immunoreactivity is distributed in the matrix compartment of normal human and Huntington's disease striatum, **416**, 141
- Ferrante, R.J., Beal, M.F., Kowall, N.W., Richardson Jr., E.P. and Martin, J.B. Sparing of acetylcholinesterase-containing striatal neurons in Huntington's disease, **411**, 162
- Ferraresi, A., see Pettorossi, V.E., **403**, 58
- Ferrari, G., see Parmeggiani, P.L., **415**, 79
- Ferrario, C.M., see Averill, D.B., **414**, 294
- Ferraro, T.N., see Fariello, R.G., **426**, 373
- Ferraro, T.N., see Manyam, B.V., **408**, 125
- Ferreira, A., see Busciglio, J., **419**, 244
- Ferrell, W.R. and Smith, A. The effect of digital nerve block on position sense at the proximal interphalangeal joint of the human index finger, **425**, 369
- Ferrell, W.R., see Baxendale, R.H., **415**, 353
- Ferriero, D.M., see Sagar, S.M., **400**, 348
- Ferris, C.F., see Albers, H.E., **437**, 189
- Ferssiwi, A., Cardo, B. and Velley, L. Gustatory preference-aversion thresholds are increased by ibotenic acid lesion of the lateral hypothalamus in the rat, **437**, 142
- Feuerstein, C., see Paturle, L., **402**, 383
- Fibiger, H.C., see Phillips, A.G., **402**, 109
- Fields, H.L., see Fang, F.G., **420**, 171
- Fields, R.D., Black, J.A. and Waxman, S.G. Filipin-cholesterol binding in CNS axons prior to myelination: evidence for microheterogeneity in premyelinated axolemma, **404**, 21
- Fieschi, C., see Orzi, F., **423**, 144
- Fifková, E., see Scheetz, A.J., **403**, 151
- Fifková, E., see Scheetz, A.J., **409**, 329
- Filippi, G.M., see Grassi, C., **435**, 15
- Filloux, F.M., Wamsley, J.K. and Dawson, T.M. Presynaptic and postsynaptic D₁ dopamine receptors in the nigrostriatal system of the rat brain: a quantitative autoradiographic study using the selective D₁ antagonist [³H]SCH 23390, **408**, 205
- Filtz, T.M., see Guyenet, P.G., **407**, 272
- Finch, C.E., see Osterburg, H.H., **409**, 31
- Fine, A., Pittaway, K., De Quidt, M., Czudek, C. and Reynolds, G.P. Maintenance of cortical somatostatin and monoamine levels in the rat does not require intact cholinergic innervation, **406**, 326
- Finegan, J.M., see Sims, N.R., **436**, 30
- Finkelstein, J.N., see Aschner, M., **401**, 132
- Finklestein, S.P., Benowitz, L.I., Olson, A.J., Perrone-Bizzozero, N.I., Majocha, R.E. and Apostolides, P.J. Conditioned media from the injured lower vertebrate CNS promote neurite outgrowth from mammalian brain neurons in vitro, **413**, 267
- Finsen, B., see Sørensen, T., **413**, 392
- Firth, B.T. and Kennaway, D.J. Melatonin content of the pineal, parietal eye and blood plasma of the lizard, *Trachydosaurus rugosus*: effect of constant and fluctuating temperature, **404**, 313
- Fischer, I., Kosik, K.S. and Sapirstein, V.S. Heterogeneity of microtubule-associated protein (MAP2) in vertebrate brains, **436**, 39
- Fischer, J.A., see Henke, H., **410**, 404
- Fischer, J.E., see Chance, W.T., **416**, 228
- Fischette, C.T., Nock, B. and Renner, K. Effects of 5,7-dihydroxytryptamine on serotonin₁ and serotonin₂ receptors throughout the rat central nervous system using quantitative autoradiography, **421**, 263
- Fishell, G., see Van der Kooy, D., **401**, 155
- Fisher, L., see Brown, M., **400**, 35
- Fisher, R.S., see Levine, M.S., **401**, 213
- Fishman, P.S. and Carrigan, D.R. Retrograde transneuronal transfer of the C-fragment of tetanus toxin, **406**, 275
- Fishman, R.H.B., Pleet, A.B., Melamed, E. and Abramsky, O. Regional brain superoxide dismutase activity is altered differently by heat in warm and cool mice, **410**, 343
- Fleck, D.L., see Morley, B.J., **421**, 21
- Flood, D.G., Buell, S.J., Horwitz, G.J. and Coleman, P.D. Dendritic extent in human dentate gyrus granule cells in normal aging and senile dementia, **402**, 205
- Flood, D.G., Guarnaccia, M. and Coleman, P.D. Dendritic extent in human CA₂₋₃ hippocampal pyramidal neurons in normal aging and senile dementia, **409**, 88
- Flood, J.F., Cherkin, A. and Morley, J.E. Antagonism of endogenous opioids modulates memory processing, **422**, 218
- Flood, J.F., Hernandez, E.N. and Morley, J.E. Modulation of memory processing by neuropeptide Y, **421**, 280
- Flood, J.F., see Roberts, E., **406**, 357
- Florence, E., see Cach, R.L., **421**, 370
- Flügge, G., see Gahr, M., **402**, 173
- Flumerfelt, B.A., see Elisevich, K., **408**, 227
- Fodritto, F., see De Simoni, M.G., **411**, 81
- Fodritto, F., see De Simoni, M.G., **411**, 89
- Foley-Nelson, T., see Chance, W.T., **416**, 228
- Folstein, S.E., see DeSouza, E.B., **437**, 355
- Fong, C.N. and Pant, H.C. ATP-dependent and ATP-independent calcium buffers determined in isolated squid axoplasm by axoplasmic dilution using calcium-selective electrodes, **436**, 229
- Fonnum, F., see Fosse, V.M., **400**, 219
- Fonteriz, R.I., Gandia, L., Lopez, M.G., Artalejo, C.R. and García, A.G. Dihydropyridine chirality at the chromaffin cell calcium channel, **408**, 359
- Foot, W.E., see Edwards, D.L., **437**, 197
- Ford, R.D., see Colom, L.V., **410**, 12
- Forda, S.R., see Prestwich, S.A., **405**, 130
- Foreman, R.D., see Girardot, M.-N., **409**, 19
- Forman, D.S., Lynch, K.J. and Smith, R.S. Organelle dynamics in lobster axons: anterograde, retrograde and stationary mitochondria, **412**, 96
- Fornal, C.A., see Morilak, D.A., **422**, 17
- Fornal, C.A., see Morilak, D.A., **422**, 24
- Fornal, C.A., see Morilak, D.A., **422**, 32
- Forni, C., see El Ganouni, S., **404**, 239
- Forno, L.S., see Ricaurte, G.A., **403**, 43
- Fort, P., see Luppi, P.-H., **402**, 339
- Fortner, P., see McDevitt, L., **416**, 308
- Fosse, V.M. and Fonnum, F. Biochemical evidence for glutamate and/or aspartate as neurotransmitters in fibers from the visual cortex to the lateral posterior thalamic nucleus (Pulvinar) in rats, **400**, 219
- Fosset, M., see Lombet, A., **417**, 327
- Fossier, P., see Poulain, B., **435**, 63
- Foster, T.C., Christian, E.P.,

- Hampson, R.E., Campbell, K.A. and Deadwyler, S.A.
Sequential dependencies regulate sensory evoked responses of single units in the rat hippocampus, **408**, 86
- Fournie-Zaluski, M.C., see Dickenson, A.H., **408**, 185
- Fourrier, O., see Paturle, L., **402**, 383
- Foutz, A.S., Boudinot, E., Morin-Surun, M.-P., Champagnat, J., Gonsalves, S.F. and Denavit-Saubié, M.
Excitability of 'silent' respiratory neurons during sleep-waking states: an iontophoretic study in undrugged chronic cats, **404**, 10
- Fowler, C.J., see Ahlenius, S., **402**, 131
- Franchi, A.M., Gimeno, M.F., Cardinali, D.P. and Vacas, M.I.
Melatonin, 5-methoxytryptamine and some of their analogs as cyclo-oxygenase inhibitors in rat medial basal hypothalamus, **405**, 384
- Francis, P.T., see Palmer, A.M., **401**, 231
- Francis, P.T., see Palmer, A.M., **414**, 365
- Frank, M.E., see Whitehead, M.C., **405**, 192
- Frankfurt, M., Allen, D.L., Luine, V.N. and Beaudet, A.
Temporal effects of intrahypothalamic 5,7-dihydroxytryptamine: relationship between serotonin levels and [³H]serotonin binding, **419**, 216
- Frankfurt, M., see Luine, V.N., **426**, 47
- Franklin, C.L. and Gruol, D.L.
Acute ethanol alters the firing pattern and glutamate response of cerebellar Purkinje neurons in culture, **416**, 205
- Franklin, S.R., see Piercey, M.F., **424**, 1
- Franzini, C., see Lenzi, P., **415**, 14
- Fratta, W., see Marrosu, F., **408**, 394
- Fredens, K., Stengaard-Pedersen, K. and Wallace, M.N.
Localization of cholecystokinin in the dentate commissural-associational system of the mouse and rat, **401**, 68
- Fredholm, B.B., see Brodie, M.S., **415**, 323
- Fredman, P., see Corneliussen, O., **416**, 43
- Freed, W.J., see Shelton, R.C., **402**, 399
- Freeman, A.S. and Bunney, B.S.
Activity of A₉ and A₁₀ dopaminergic neurons in unrestrained rats: further characterization and effects of apomorphine and cholecystokinin, **405**, 46
- Freeman, A.S., see Chiodo, L.A., **410**, 205
- Freeman, W.J. and Van Dijk, B.W.
Spatial patterns of visual cortical fast EEG during conditioned reflex in a rhesus monkey, **422**, 267
- French, E.D., see Siggins, G.R., **414**, 22
- French, J., see Pohorecki, R., **420**, 199
- French, P.W., Sheppard, A.M. and Jeffrey, P.L.
Neural membrane glycoproteins associated with chicken Thy-1: an anti-idiotypic antibody study, **420**, 324
- Frey, J.M., Ticku, M.K. and Huffman, R.D.
GABAergic supersensitivity within the pars reticulata of the rat substantia nigra following chronic haloperidol administration, **425**, 73
- Friedman, D.P., see Nelson, R.B., **416**, 387
- Friedman, R., see Perry, G., **420**, 233
- Friedrich, P., see De Blas, A.L., **413**, 275
- Frikke, M.J., Seshi, B. and Bell Jr., C.E.
Monoclonal antibodies to human neuron-specific enolase reveal heterogeneity of the enzyme in neurons of the central nervous system, **417**, 283
- Frilli, S., see Maggi, C.A., **415**, 1
- Frilli, S., see Maggi, C.A., **436**, 402
- Fritschy, J.-M., Lyons, W.E., Mullen, C.A., Kosofsky, B.E., Molliver, M.E. and Grzanna, R.
Distribution of locus coeruleus axons in the rat spinal cord: a combined anterograde transport and immunohistochemical study, **437**, 176
- Frohnman, L.A., see Ishikawa, K., **407**, 144
- Frotscher, M., see Schlander, M., **401**, 185
- Fry, K.R., see Oyster, C.W., **425**, 25
- Fuchs, I., see Sanghera, M.K., **412**, 200
- Fuchs, J.L. and Hoppens, K.S.
 α -Bungarotoxin binding in relation to functional organization of the rat suprachiasmatic nucleus, **407**, 9
- Fujii, K., see Sadoshima, S., **413**, 297
- Fujii, N., see Oku, R., **403**, 350
- Fujii, S., Senba, E., Kiyama, H., Ueda, Y. and Tohyama, M.
Mammillothalamic enkephalinergic pathway in the rat: an immunocytochemical analysis, **401**, 1
- Fujimoto, J.M., see Roerig, S.C., **400**, 278
- Fujisawa, H., see Haan, E.A., **426**, 19
- Fujishima, M., see Sadoshima, S., **413**, 297
- Fujishima, M., see Yoshida, F., **412**, 1
- Fujita, S., see Kitamura, T., **423**, 189
- Fujita, Y., see Tominaga, T., **402**, 370
- Fujita, S.C., see Obata, K., **404**, 169
- Fujita, S.C., see Onoda, N., **416**, 359
- Fujita, Y., see Ujihara, H., **418**, 52
- Fujitsuka, N., Sokabe, M., Yoshimura, A. and Ito, F.
Possible fusimotor innervation to frog muscle spindles, **415**, 144
- Fujiwara, N., see Shimoji, K., **408**, 385
- Fukuchi, I., Kato, S., Nakahiro, M., Uchida, S., Ishida, R. and Yoshida, H.
Blockade of cholinergic receptors by an irreversible antagonist, propylbenzilylcholine mustard (PrBCM), in the rat cerebral cortex causes deficits in passive avoidance learning, **400**, 53
- Fukuda, H., see Kaneko, T., **417**, 403
- Fukuda, Y., see Wakakuwa, K., **404**, 211
- Fukuda, H., see Hara, K., **410**, 371
- Fukuda, M., see Nishino, H., **413**, 302
- Fukuda, M., Yeh, H.H. and Puro, D.G.
A vasoactive intestinal polypeptide system in retinal cell cultures: immunocytochemistry and physiology, **414**, 177
- Fukui, M., see Kondo, A., **412**, 73
- Fukui, Y., see Matsubara, K., **413**, 336
- Fukui, H., see Ando-Yamamoto, M., **410**, 269
- Fukui, M., see Inoue, T., **414**, 309
- Fukushima, N., see Ueda, H., **419**, 197
- Fukushima, S., see Matsubara, K., **413**, 336
- Funakoshi, M., see Ninomiya, Y., **404**, 350
- Fung, S.J. and Barnes, C.D.
Membrane excitability changes in hindlimb motoneurons induced by stimulation of the locus coeruleus in cats, **402**, 230
- Fung, S.J., Pompeiano, O. and Barnes, C.D.
Suppression of the recurrent inhibitory pathway in lumbar cord segments during locus coeruleus stimulation in cats, **402**, 351
- Fung, S.J., Reddy, V.K., Bowker, R.M. and Barnes, C.D.
Differential labeling of the vestibular complex following unilateral injections of horseradish peroxidase into the cat and rat locus coeruleus, **401**, 347
- Furio, M., see Maggi, C.A., **415**, 1
- Furui, T., see Yaksh, T.L., **406**, 207
- Furuichi, H., see Sugaya, E., **416**, 183
- Fuxe, K., see Pich, E.M., **435**, 147

G

- Gabriel, M. and Sparenborg, S.
Posterior cingulate cortical lesions eliminate learning-related unit activity in the anterior cingulate cortex, **409**, 151
- Gage, F.H., see Buzsáki, G., **400**, 321
- Gage, F.H., see Buzsáki, G., **400**, 334
- Gage, F.H., see Shults, C.W., **426**, 290

- Gahr, M., Flügge, G. and Güttinger, H.-R. Immunocytochemical localization of estrogen-binding neurons in the songbird brain, **402**, 173
- Galey, D., see Caudarella, M., **435**, 202
- Gall, C., Lauterborn, J., Burks, D. and Seroogy, K. Co-localization of enkephalin and cholecystokinin in discrete areas of rat brain, **403**, 403
- Gall, C.M., see Hunt, C.A., **426**, 257
- Gallager, D.W., see Gonsalves, S.F., **405**, 94
- Gallagher, M., see Decker, M.W., **417**, 59
- Gallagher, J.P., see Joëls, M., **417**, 99
- Gallagher, M.J., see Collier, T.J., **436**, 363
- Gallego, R., see Morales, A., **401**, 340
- Galletti, P.M., see Aebischer, P., **436**, 165
- Galli, C., see Petroni, A., **415**, 226
- Gallo, R.V., see Babu, G.N., **416**, 235
- Galloway, P.G., Perry, G., Kosik, K.S. and Gambetti, P. Hirano bodies contain tau protein, **403**, 337
- Galton, N., see Michaelis, M.L., **414**, 239
- Gambetti, P., see Galloway, P.G., **403**, 337
- Gambetti, P., see Pappolla, M., **424**, 272
- Gambetti, P., see Perry, G., **420**, 233
- Gambetti, P., see Morandi, A., **437**, 69
- Gandhi, M.R., see Sica, A.L., **408**, 222
- Gandia, L., see Fonteriz, R.I., **408**, 359
- Gandolfi, O., see Lombardi, G., **411**, 275
- Gandolfo, G., see Bidard, J.-N., **418**, 235
- Gann, D.S., see Carlson, D.E., **406**, 385
- Gannon, P.J. and Eden, A.R. A specialized innervation of the tensor tympani muscle in *Macaca fascicularis*, **404**, 257
- Ganten, D., see Imboden, H., **426**, 225
- Gantt, G., see Banik, N.L., **435**, 57
- García, A.G., see Fonteriz, R.I., **408**, 359
- García-Marquez, C., see Armario, A., **401**, 200
- García-Rill, E. and Skinner, R.D. The mesencephalic locomotor region. I. Activation of a medullary projection site, **411**, 1
- García-Rill, E. and Skinner, R.D. The mesencephalic locomotor region. II. Projections to reticulospinal neurons, **411**, 13
- García-Segura, L.M., see Olmos, G., **425**, 57
- García-Segura, L.M., see Tranque, P.A., **406**, 348
- García-Austt, E., see Alonso, A., **413**, 135
- García-Austt, E., see Núñez, A., **416**, 289
- García-Hernández, F., Aguilar-Roblero, R. and Drucker-Colín, R. Transplantation of the fetal occipital cortex to the third ventricle of SCN-lesioned rats induces a diurnal rhythm in drinking behavior, **418**, 193
- Gardiner, I.M., De Belleruche, J., Premi, B.K. and Hamilton, M.H. Effect of lesion of the nucleus basalis of rat on acetylcholine release in cerebral cortex: time course of compensatory events, **407**, 263
- Gardner, J.C. and Cynader, M.S. Mechanisms for binocular depth sensitivity along the vertical meridian of the visual field, **413**, 60
- Garland, J., see Mogenson, G.J., **404**, 221
- Garritano, A.M., see Kumar, K., **421**, 309
- Garssen, J., see De Vente, J., **411**, 120
- Gash, D.M., see Kordower, J.H., **417**, 85
- Gavish, M., see Fares, F., **408**, 381
- Gavish, M., Weizman, A., Youdim, M.B.H. and Okun, F. Regulation of central and peripheral benzodiazepine receptors in progesterone-treated rats, **409**, 386
- Gavras, H., see Benetos, A., **412**, 182
- Gavras, I., see Benetos, A., **412**, 182
- Gaykema, R.P.A., see Luiten, P.G.M., **413**, 229
- Gayton, R.J., see Taylor, D.C.M., **419**, 352
- Gaztelu, J.M., see Alonso, A., **413**, 135
- Gebber, G.L., Barman, S.M. and Morrison, S.F. Electrophysiological evidence for the modular organization of the reticular formation: sympathetic controlling circuits, **410**, 106
- Gebhart, G.F., see Aimone, L.D., **403**, 290
- Gebhart, G.F., see Janss, A.J., **400**, 40
- Gebhart, G.F., see Janss, A.J., **405**, 140
- Gebhart, G.F., see Ness, T.J., **426**, 169
- Gebhart, G.F., see Randich, A., **411**, 236
- Geffard, M., see Onténiente, B., **421**, 391
- Geffard, M., Touret, M. and Kitahama, K. First characterization of 5-hydroxytryptophan in rat brain by using specific antibodies, **426**, 191
- Gehlert, D.R. and Wamsley, J.K. Quantitative autoradiography of α_2 agonist binding sites in the spontaneously hypertensive rat brain, **409**, 308
- Geiger, J.D. Adenosine uptake and [3 H]nitrobenzylthioinosine binding in developing rat brain, **436**, 265
- Geinisman, Y., Morrell, F. and Detoleto-Morrell, L. Axospinous synapses with segmented postsynaptic densities: a morphologically distinct synaptic subtype contributing to the number of profiles of 'perforated' synapses visualized in random sections, **423**, 179
- Geinisman, Y., Morrell, F. and Detoleto-Morrell, L. Synapses on dendritic shafts exhibit a perforated postsynaptic density, **422**, 352
- Geller, H.M., see Ventimiglia, R., **436**, 339
- Gemba, H., see Sasaki, K., **415**, 362
- Gentile, C.G., see Jarrell, T.W., **412**, 285
- Geoffroy, B., see Mariani, J., **421**, 211
- Geppetti, P., see Maggi, C.A., **415**, 1
- Geppetti, P., see Maggi, C.A., **436**, 402
- Gerard, P., see Brisac, A.-M., **435**, 160
- Gerard, P., see Huguet, F., **412**, 125
- Gerfen, C.R., see Lad, R.P., **423**, 237
- Gerhardt, G.A., Rose, G.M. and Hoffer, B.J. In vivo electrochemical demonstration of potassium-evoked monoamine release from rat cerebellum, **413**, 327
- Gerhardt, G.A., see Granholm, A.-C., **423**, 71
- Gerhart, D.Z., see Fatehi, M.I., **415**, 30
- Gerozissis, K., Saadi, M. and Dray, F. Leukotrienes C_4 and D_4 stimulate the release of luteinizing hormone-releasing hormone from rat median eminence in vitro, **416**, 54
- Gerstberger, R., Healy, D.P., Hammel, H.T. and Simon, E. Autoradiographic localization and characterization of circumventricular angiotensin II receptors in duck brain, **400**, 165
- Gervais, R. Local GABAergic modulation of noradrenergic release in the rat olfactory bulb measured on superfused slices, **400**, 151
- Gessa, G.L., see Argiolas, A., **421**, 349
- Gessa, G.L., see Marrosu, F., **408**, 394
- Gessa, G.L., see Melis, M.R., **415**, 98
- Gessa, G.L., see Mereu, G., **408**, 210
- Getting, P.A., see Richerson, G.B., **409**, 128
- Ghetti, B., see Gupta, M., **402**, 379
- Ghetti, B., see Low, W.C., **435**, 315
- Ghetti, B., see Kaseda, Y., **422**, 178
- Ghignone, M., see Gillon, J.-Y., **418**, 157
- Ghignone, M., see Quintin, L., **425**, 319
- Giakas, W.J., see Catelli, J.M., **403**, 279
- Giaretta, D., Avoli, M. and Gloor, P. Intracellular recordings in pericruciate neurons during spike and wave discharges of feline generalized penicillin epilepsy,

- 405, 68**
 Gibb, J.W., see Letter, A.A., **422, 200**
 Gibb, J.W., see Matsuda, L.A., **400, 176**
 Gibbins, I.L., Wattchow, D. and Coventry, B.
 Two immunohistochemically identified populations of calcitonin gene-related peptide (CGRP)-immunoreactive axons in human skin, **414, 143**
 Gibbs Jr., C.J., see Gourmelon, P., **411, 391**
 Gibbs, M.A., see D'Amelio, F.E., **410, 232**
 Gibson, M.J., Moscovitz, H.C., Kokoris, G.J. and Silverman, A.-J.
 Plasma LH rises rapidly following mating in hypogonadal female mice with preoptic area (POA) brain grafts, **424, 133**
 Gibson, M.J., see Perlow, M.J., **415, 158**
 Gierschik, P., see Lad, R.P., **423, 237**
 Giesler Jr., G.J., see Kajander, K.C., **436, 390**
 Gilad, G.M. and Gilad, V.H.
 Age-related reductions in brain cholinergic and dopaminergic indices in two rat strains differing in longevity, **408, 247**
 Gilad, G.M., Rabey, J.M., Tizabi, Y. and Gilad, V.H.
 Age-dependent loss and compensatory changes of septohippocampal cholinergic neurons in two rat strains differing in longevity and response to stress, **436, 311**
 Gilad, V.H., see Gilad, G.M., **408, 247**
 Gilad, V.H., see Gilad, G.M., **436, 311**
 Gilbert, J.J., see Feasby, T.E., **419, 97**
 Gibbey, M.P., see Numao, Y., **401, 190**
 Gillon, J.-Y., Quintin, L., Ghignone, M. and Pujol, J.-F.
 Clonidine modulates the ventrolateral medullary catechol metabolic hyperactivity induced by hypotension, **418, 157**
 Gillon, J.-Y., see Quintin, L., **425, 319**
 Gimeno, M.F., see Franchi, A.M., **405, 384**
 Ginsberg, M.D., see Vibulsreth, S., **422, 303**
 Ginsberg, M.D., see Yoshida, S., **412, 114**
 Gintzler, A.R., see Baron, S.A., **418, 138**
 Gintzler, A.R., see Sander, H.W., **408, 389**
 Gioannini, T.L., see Carr, K.D., **422, 384**
 Giovino, A.A., see Glimcher, P.W., **403, 147**
 Girardier, L., see Shibata, M., **436, 273**
 Girardot, M.-N., Brennan, T.J., Martindale, M.E. and Foreman, R.D.
 Effects of stimulating the subcoeruleus-parabrachial region on the non-noxious and noxious responses of T₁₈-T₅ spinothalamic tract neurons in the primate, **409, 19**
 Girault, J.M., see Voisin, P.J., **404, 65**
 Girgis, S., see Kawai, Y., **409, 371**
 Girgis, S.I., see Kubota, Y., **415, 385**
 Girgis, S.I., see Lee, Y., **407, 149**
 Gispén, W.H., see De Graan, P.N.E., **404, 345**
 Gispén, W.H., see Verhaagen, J., **404, 142**
 Gist, R., see Chen, Y.-F., **413, 15**
 Gitler, M.S. and Barraclough, C.A.
 Effects of drugs which modify catecholamine activity on amplification of LH release induced by locus coeruleus electrical stimulation, **437, 332**
 Gitler, M.S. and Barraclough, C.A.
 Locus coeruleus (LC) stimulation augments LHRH release induced by medial preoptic stimulation. Evidence that the major LC stimulatory component enters contralaterally into the hypothalamus, **422, 1**
 Giuliani, S., see Maggi, C.A., **415, 1**
 Giuliani, S., see Maggi, C.A., **436, 402**
 Gjerris, A., see Bryld, E., **409, 364**
 Glass, E.J., see Hsu, L.L., **417, 232**
 Glaum, S., see Yanik, G., **403, 177**
 Glavin, G.B., see Nukina, I., **401, 30**
 Glenn, L.L., Samojla, B.G. and Whitney, J.F.
 Electrotone parameters of cat spinal α -motoneurons evaluated with an equivalent cylinder model that incorporates non-uniform membrane resistivity, **435, 398**
 Glezer, I.I., Jacobs, M.S. and Morgane, P.J.
 Ultrastructure of the blood-brain barrier in the dolphin (*Stenella coeruleoalba*), **414, 205**
 Glick, S.D., see Bracha, H.S., **411, 231**
 Glick, S.D., see Carlson, J.N., **400, 200**
 Glick, S.D., see Shapiro, R.M., **426, 323**
 Glimcher, P.W., Giovino, A.A. and Hoebel, B.G.
 Neurotensin self-injection in the ventral tegmental area, **403, 147**
 Gloor, P., see Giaretta, D., **405, 68**
 Glotzbach, S.F., Cornett, C.M. and Heller, H.C.
 Activity of suprachiasmatic and hypothalamic neurons during sleep and wakefulness in the rat, **419, 279**
 Glowinski, J., see Ferino, F., **417, 257**
 Go, V.L.W., see Schick, R.R., **418, 20**
 Go, V.L.W., see Yaksh, T.L., **406, 207**
 Goddard, G.V., see Bilkey, D.K., **405, 320**
 Goddard, G.V., see Kairiss, E.W., **401, 87**
 Goddard, G.V., see Morimoto, K., **407, 137**
 Godefroy, F., see Basbaum, A.I., **419, 229**
 Godfrey, D.A., see Ross, C.D., **401, 168**
 Goetzl, E.J., see Taiwo, Y.O., **423, 333**
 Gola, M., see Pin, T., **412, 165**
 Goldberg, D.J., see Savage, M.J., **406, 215**
 Goldberg, S.J., see Gurahian, S.M., **415, 281**
 Goldberg, W.J., see Bernstein, J.J., **426, 112**
 Goldberger, M.E., see Ungar-Sargon, J., **407, 117**
 Goldberger, M.E., see Ungar-Sargon, J., **407, 124**
 Golden, G.T., see Fariello, R.G., **426, 373**
 Goldfarb, J., see Clarke, W.P., **410, 357**
 Goldman, D., Lister, R.G. and Crabbe, J.C.
 Mapping of a putative genetic locus determining ethanol intake in the mouse, **420, 220**
 Goldsmith, P., see Lad, R.P., **423, 237**
 Goldstein, D., see Hargreaves, K.M., **422, 154**
 Goldstein, M., see Pich, E.M., **435, 147**
 Goltzman, D. and Tannenbaum, G.S.
 Induction of hypocalcemia by intracerebroventricular injection of calcitonin: evidence for control of blood calcium by the nervous system, **416, 1**
 Gomez, R.E., see Cannata, M.A., **420, 295**
 Gómez, M.N. and Campos, H.A.
 Cholinergic manipulations in the rat basolateral amygdaloid nucleus on locomotor activity induced by amphetamine, **404, 304**
 Gómez-Pinilla, F., see Villablanca, J.R., **410, 219**
 Gonatas, J.O., see Stieber, A., **408, 13**
 Gonatas, N.K., see Stieber, A., **408, 13**
 Gonsalves, S.F. and Gallagher, D.W.
 Time course for development of anticonvulsant tolerance and GABAergic subsensitivity after chronic diazepam, **405, 94**
 Gonsalves, S.F., see Foutz, A.S., **404, 10**
 Gonzalez, M., see Motles, E., **405, 165**
 Gonzalez, A. and Munoz, M.
 Some connections of the area octavolateralis of *Pleurodeles waltlii*. A study with horseradish peroxidase under in vitro conditions, **423, 338**
 Gonzalez-Lima, F.
 Midbrain reticular stimulation produces patterns of metabolic activation and suppression in the cerebellum and vestibular nuclei: a 2-deoxyglucose study, **412, 275**
 González, J.L. and Santos-Benito, F.F.
 Synthesis of acetylcholine by endothelial cells isolated from rat brain cortex capillaries, **412, 148**
 Gonzalo-Ruiz, A., see Leichnetz, G.R., **416, 195**
 Gonzalo-Ruiz, A., see Leichnetz, G.R., **422, 389**
 Gootman, P.M., see Cohen, H.L., **426, 179**
 Gordon, B., see Allen, E.E., **401, 397**

- Gordon, T., see Shapiro, J., **410**, 186
- Gorelova, N.A., Krivánek, J. and Bureš, J.
Functional and metabolic correlates of long series of cortical spreading depression waves in rats, **404**, 379
- Gorenstein, C., see Robertson, R.T., **404**, 282
- Gorenstein, C., Bundman, M.C., Bruce, J.L. and Rotter, A.
Neuronal localization of pseudocholinesterase in the rat cerebellum: sagittal bands of Purkinje cells in the nodulus and uvula, **418**, 68
- Gorodnov, V.L. and Fanardjian, V.V.
Functional properties of the cerebellar synapses in the cat, **410**, 340
- Gorodnov, V.L., see Fanardjian, V.V., **425**, 65
- Gorski, R.A., see Jacobson, C.D., **414**, 349
- Goto, Y., see Shimosegawa, T., **406**, 341
- Gottesfeld, Z., see Swann, A.C., **404**, 323
- Gottesmann, C., see Bidard, J.-N., **418**, 235
- Gottfries, C.-G., see Nordström, Ö., **420**, 371
- Gottfries, C.G., see Marcusson, J.O., **425**, 137
- Gourmelon, P., Amyx, H.L., Baron, H., Lemerrier, G., Court, L. and Gibbs Jr., C.J.
Sleep abnormalities with REM disorder in experimental Creutzfeldt–Jakob disease in cats: a new pathological feature, **411**, 391
- Gout, O., see Baulac, M., **420**, 39
- Gout, P.W., see Emanuele, N.V., **421**, 255
- Govoni, S., see Rius, R.A., **402**, 359
- Gower, D.J. and Tytell, M.
Axonal transport of clathrin-associated proteins, **407**, 1
- Grabau, G.G., see Schmidt, R.E., **401**, 142
- Grady, C.L., see Horwitz, B., **407**, 294
- Graeber, G.M., see Long, J.B., **436**, 374
- Grafstein, B., see Antonian, E., **400**, 403
- Graham, D.I., see Macrae, I.M., **435**, 195
- Graham, S., see Slotnick, B.M., **417**, 343
- Granhölm, A.-C., Gerhardt, G.A., Eriksdotter-Nilsson, M., Bickford-Wimer, P.C., Palmer, M.R., Seiger, Å., Olson, L. and Hoffer, B.J.
Age-related changes in cerebellar noradrenergic pre- and postsynaptic mechanisms: intrinsic vs extrinsic determinants evaluated with brain grafts in oculo, **423**, 71
- Grantham, P., see Hall, M.E., **420**, 82
- Grantyn, R., Perouansky, M., Lux, H.D. and Hablitz, J.J.
Glutamate-induced ionic currents in cultured neurons from the rat superior colliculus, **420**, 182
- Grassi, C., Filippi, G.M. and Passatore, M.
Tension development in lumbrical muscles and concomitant increase of activity in A α and A β afferents during sympathetic stimulation in the cat, **435**, 15
- Grassi, J., see Maggi, C.A., **436**, 402
- Gratton, A., see Jenck, F., **423**, 34
- Graubard, K., see Callaway, J.C., **405**, 295
- Gravel, C. and Hawkes, R.
Thyroid hormone modulates the expression of a neurofilament antigen in the cerebellar cortex: premature induction and overexpression by basket cells in hyperthyroidism and a critical period for the correction of hypothyroidism, **422**, 327
- Gravel, C., see Beesley, P.W., **408**, 65
- Gray, D.A., see Simon-Oppermann, C., **424**, 163
- Graybiel, A.M., see Jimenez-Castellanos, J., **437**, 349
- Graziadei, P.P.C., see Magrassi, L., **412**, 386
- Grebb, J.A., see Shelton, R.C., **402**, 399
- Greenberg, D.A., Carpenter, C.L. and Messing, R.O.
Ethanol-induced component of $^{45}\text{Ca}^{2+}$ uptake in PC12 cells is sensitive to Ca^{2+} channel modulating drugs, **410**, 143
- Greenberg, D.A., Carpenter, C.L. and Messing, R.O.
Interaction of calmodulin inhibitors and protein kinase C inhibitors with voltage-dependent calcium channels, **404**, 401
- Greenberg, J.H., see Sladky, J.T., **414**, 323
- Greenblatt, D.J., see Miller, L.G., **414**, 395
- Greenough, W.T., see Loeb, E.P., **403**, 113
- Greenough, W.T., see Sirevaag, A.M., **424**, 320
- Gregory, J.E., Kenins, P. and Proske, U.
Can lactate-evoked cardiovascular responses be used to identify muscle ergoreceptors?, **404**, 375
- Grelot, L. and Bianchi, A.L.
Differential effects of halothane anesthesia on the pattern of discharge of inspiratory and expiratory neurons in the region of the retrofacial nucleus, **404**, 335
- Gremoli, T., see Petrosini, L., **418**, 398
- Grenon, G., see Robitaille, R., **408**, 353
- Grewell, K.M., see Desan, P.H., **413**, 344
- Griffith, N., Engel Jr., J. and Bandler, R.
Ictal and enduring interictal disturbances in emotional behaviour in an animal model of temporal lobe epilepsy, **400**, 360
- Griffo, M., see Lad, R.P., **423**, 237
- Grillner, S., see Buchanan, J.T., **408**, 299
- Grillner, S., see Buchanan, J.T., **408**, 321
- Grillner, S., see Moore, L.E., **419**, 397
- Grimes, L., see Mitchell, C.L., **435**, 343
- Grimes, L., see Tilson, H.A., **408**, 163
- Grimm-Jørgensen, Y.
Somatostatin and calcitonin stimulate neurite regeneration of molluscan neurons in vitro, **403**, 121
- Grinstein, S., see Jakubovicz, D.E., **435**, 138
- Griph, S., see Svensson, B.A., **423**, 229
- Grober, M.S., Bass, A.H., Burd, G., Marchaterre, M.A., Segil, N., Scholz, K. and Hodgson, T.
The nervus terminalis ganglion in *Anguilla rostrata*: an immunocytochemical and HRP histochemical analysis, **436**, 148
- Groenewegen, H.J., see Voorn, P., **412**, 391
- Grondin, L., see Diop, L., **402**, 403
- Grones, W., see Ramirez, J.J., **414**, 85
- Gross, P.M., see Sposito, N.M., **403**, 375
- Grosser, B.I., see Byerley, W.F., **421**, 377
- Grossi, P., see Petroni, A., **415**, 226
- Grossmann, R., Diez-Guerra, F.J., Mansfield, S. and Dyer, R.G.
Neonatal testosterone modifies LH secretion in the adult female rat by altering the opioid–noradrenergic interaction in the medial preoptic area, **415**, 205
- Groves, P.M., see Klemfuss, H., **409**, 197
- Gruberg, E.R., see Desan, P.H., **413**, 344
- Gruen, E., see Woody, C.D., **424**, 193
- Grünwald, F., Schröck, H. and Kuschinsky, W.
The effect of an acute nicotine infusion on the local cerebral glucose utilization of the awake rat, **400**, 232
- Gruol, D.L., see Franklin, C.L., **416**, 205
- Gruol, D.L., see Yool, A.J., **420**, 205
- Grzanna, R., see Fritschy, J.-M., **437**, 176
- Grzanna, R., see Blakely, R.D., **402**, 373
- Guarnaccia, M., see Flood, D.G., **409**, 88
- Gubitz, G.J., see Naylor, A.M., **401**, 173
- Guerra, M., see Battaner, E., **425**, 391
- Guerra, M., see Rodriguez del Castillo, A., **416**, 113
- Guha, A., see Midha, R., **410**, 299
- Guidalotti, P.L., see Lenzi, P., **415**, 14
- Guilbaud, G., see Kayser, V., **405**, 123
- Guilbaud, G., see Kayser, V., **414**, 155
- Guillemot, J.-P., Richer, L., Prevost, L., Pitto, M. and

- Lepore, F.
Receptive field properties of somatosensory callosal fibres in the monkey, **402**, 293
- Guinan Jr., J.J., see Kobler, J.B., **425**, 372
- Gulyás, J., see Merchenthaler, I., **416**, 219
- Gumpel, M., see Baulac, M., **420**, 39
- Gunion, M.W. and Taché, Y.
Bombesin microinfusion into the paraventricular nucleus suppresses gastric acid secretion in the rat, **422**, 118
- Gunion, M.W. and Taché, Y.
Intrahypothalamic microinfusion of corticotropin-releasing factor inhibits gastric acid secretion but increases secretion volume in rats, **411**, 156
- Gunnet, J.W., Lookingland, K.J., Lindley, S.E. and Moore, K.E.
Effect of electrical stimulation of the arcuate nucleus on neurochemical estimates of tuberoinfundibular and tuberohypophyseal dopaminergic neuronal activities, **424**, 371
- Gunnet, J.W., see Lookingland, K.J., **436**, 161
- Güntürkün, O. and Böhringer, P.G.
Lateralization reversal after intertectal commissurotomy in the pigeon, **408**, 1
- Gupta, M., Felten, D.L. and Ghetti, B.
Selective loss of monoaminergic neurons in weaver mutant mice — an immunocytochemical study, **402**, 379
- Gurahian, S.M. and Goldberg, S.J.
Fatigue of lateral rectus and retractor bulbi motor units in cat, **415**, 281
- Gurd, J.W., see Beesley, P.W., **408**, 65
- Gurkan, S. and Bradley, R.M.
Autonomic control of von Ebner's lingual salivary glands and implications for taste sensation, **419**, 287
- Gurtu, S., see Shapiro, J., **410**, 186
- Guthrie, P.B., Brennehan, D.E. and Neale, E.A.
Morphological and biochemical differences expressed in separate dissociated cell cultures of dorsal and ventral halves of the mouse spinal cord, **420**, 313
- Gutkind, J.S., see Castrén, E., **422**, 347
- Güttinger, H.-R., see Gahr, M., **402**, 173
- Guy, J., see Pelletier, G., **423**, 247
- Guyenet, P.G. and Young, B.S.
Projections of nucleus paragigantocellularis lateralis to locus coeruleus and other structures in rat, **406**, 171
- Guyenet, P.G., Filtz, T.M. and Donaldson, S.R.
Role of excitatory amino acids in rat vagal and sympathetic baroreflexes, **407**, 272
- Gynther, B.D., see Curtis, D.R., **422**, 192
- Gynther, B.D., see Kerr, D.I.B., **405**, 150
- Gysling, K. and Beinfeld, M.C.
The regulation of cholecystokinin release from rat caudatoputamen in vitro, **407**, 110
- Gysling, K., Allard, L.R. and Beinfeld, M.C.
Lithium preincubation stimulates the potassium-induced release of cholecystokinin from slices of cerebral cortex and caudate-putamen incubated in vitro, **413**, 365
- ## H
- Haak, K.A., see Bronstein, D.M., **406**, 352
- Haan, E.A., Jennings, I.G., Cuello, A.C., Nakata, H., Fujisawa, H., Chow, C.W., Kushinsky, R., Brittingham, J. and Cotton, R.G.H.
Identification of serotonergic neurons in human brain by a monoclonal antibody binding to all three aromatic amino acid hydroxylases, **426**, 19
- Haas, H.L., see Buzsáki, G., **435**, 331
- Haber, B., see Steinman, J.L., **426**, 297
- Hablitz, J.J., see Grantyn, R., **420**, 182
- Hackman, J.C., Holohean, A.M., Wohlberg, C.J. and Davidoff, R.A.
After-hyperpolarizations produced in frog motoneurons by excitatory amino acid analogues, **407**, 94
- Haga, C., see Uemura, T., **406**, 73
- Hagan, J.J., Tonnaer, J.A.D.M., Rijk, H., Broekkamp, C.L.E. and Van Delft, A.M.L.
Facilitation of amphetamine-induced rotation by muscarinic antagonists is correlated with M₂ receptor affinity, **410**, 69
- Hagen, T.C., see Emanuele, N.V., **421**, 255
- Hahn, A.F., see Feasby, T.E., **419**, 97
- Hahn, M.E., see Hewitt, J.K., **417**, 225
- Håkanson, R., see Wahlestedt, C., **417**, 33
- Hall, E.D.
Intensive anti-oxidant pretreatment retards motor nerve degeneration, **413**, 175
- Hall, E.D., see Travis, M.A., **418**, 366
- Hall, E.D., Wolf, D.L., Althaus, J.S. and VonVoigtlander, P.F.
Beneficial effects of the κ opiate receptor agonist U-50488H in experimental acute brain and spinal cord injury, **435**, 174
- Hall, M.E., Grantham, P., Limoli, J. and Stewart, J.M.
Effects of substance P and neurokinin A (substance K) on motor behavior: unique effect of substance P attributable to its amino-terminal sequence, **420**, 82
- Halligan, N.L.N., see Chen, G.L., **414**, 35
- Halsall, L.C., see Ahmad, G., **415**, 194
- Hama, K., see Kawaguchi, Y., **411**, 190
- Hama, K., see Kawaguchi, Y., **416**, 369
- Hama, K., see Kawaguchi, Y., **425**, 351
- Hama, K., see Kosaka, T., **409**, 403
- Hama, K., see Kosaka, T., **411**, 373
- Hama, K., see Kosaka, K., **403**, 355
- Hama, K., see Kosaka, T., **413**, 197
- Hama, K., see Kosaka, T., **419**, 119
- Hamaji, M., Kawai, Y., Kawashima, Y. and Tohyama, M.
Projections of bombesin-like immunoreactive fibers from the rat stomach to the celiac ganglion revealed by a double-labeling technique, **416**, 192
- Hamamura, M., see Shibuki, K., **410**, 140
- Hamaoka, Y., see Kosaka, T., **409**, 403
- Hamasaki, T., Komatsu, Y., Yamamoto, N., Nakajima, S., Hirakawa, K. and Toyama, K.
Electrophysiological study of synaptic connections between a transplanted lateral geniculate nucleus and the visual cortex of the host rat, **422**, 172
- Hamel, E. and Beaudet, A.
Opioid receptors in rat neostriatum: radioautographic distribution at the electron microscopic level, **401**, 239
- Hamel, E., Assumel-Lurdin, C., Edvinsson, L., Fage, D. and MacKenzie, E.T.
Neuronal versus endothelial origin of vasoactive acetylcholine in pial vessels, **420**, 391
- Hamel, E., see Waksman, G., **436**, 205
- Hamill, R.W., see Newton, B.W., **404**, 151
- Hamilton, M.H., see Gardiner, I.M., **407**, 263
- Hammang, J.P., see Blakemore, W.F., **403**, 361
- Hammang, J.P., see Duncan, I.D., **402**, 168
- Hammel, H.T., see Gerstberger, R., **400**, 165
- Hammer Jr., R.P. and Bridges, R.S.
Preoptic area opioids and opiate receptors increase during pregnancy and decrease during lactation, **420**, 48
- Hamon, M., see Soubrie, P., **437**, 323
- Hamon, B., Crepel, F. and Debono, M.
Voltage-dependency of the responses of cerebellar Purkinje cells to excitatory amino acids, **419**, 379
- Hamon, M., see Le Bars, D., **402**, 188
- Hamon, M., see Le Bars, D., **412**, 190
- Hamon, M., see Taquet, H., **411**, 178

- Hamprecht, B., see Höpp, H.-P., **412**, 175
- Hamprecht, B., see Reiser, G., **402**, 164
- Hampson, R.E., see Foster, T.C., **408**, 86
- Hand, T.H., Hu, X.-T. and Wang, R.Y.
Differential effects of acute clozapine and haloperidol on the activity of ventral tegmental (A10) and nigrostriatal (A9) dopamine neurons, **415**, 257
- Hanin, I., see Hörtnagl, H., **421**, 75
- Hanin, I., see Chrobak, J.J., **414**, 15
- Hankin, M.H. and Lund, R.D.
Specific target-directed axonal outgrowth from transplanted embryonic rodent retinae into neonatal rat superior colliculus, **408**, 344
- Hansen, T.W.R., Sagvolden, T. and Bratlid, D.
Open-field behavior of rats previously subjected to short-term hyperbilirubinemia with or without blood-brain barrier manipulations, **424**, 26
- Hanson, G.R., see Letter, A.A., **422**, 200
- Hanson, G.R., see Matsuda, L.A., **400**, 176
- Hara, K., Tohyama, I., Kimura, H., Fukuda, H., Nakamura, S. and Kameyama, M.
Reversible serotonergic neurotoxicity of *N*-methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP) in mouse striatum studied by neurochemical and immunohistochemical approaches, **410**, 371
- Harada, E., Saito, T. and Kanno, T.
Cytochrome reduction induced by increase in extracellular potassium and by electrical stimulation in isolated perfused neurohypophysis of guinea pig under mild hypoxic conditions, **414**, 173
- Harding, J.W. and Felix, D.
Angiotensin-sensitive neurons in the rat paraventricular nucleus: relative potencies of angiotensin II and angiotensin III, **410**, 130
- Harding, J.W. and Felix, D.
The effects of the aminopeptidase inhibitors amastatin and bestatin on angiotensin-evoked neuronal activity in rat brain, **424**, 299
- Harding, J.W., see Imboden, H., **410**, 74
- Harding, J.W., see Imboden, H., **426**, 225
- Harding, J.W., see Rogulja, I., **419**, 333
- Harding, J.W., see Wright, J.W., **420**, 289
- Hare, T.A., see Manyam, B.V., **408**, 125
- Harel, A., see Lavie, V., **419**, 166
- Harel, A., see Zak, N.B., **408**, 263
- Harel, M., see Amir, S., **435**, 112
- Hargreaves, K.M., Mueller, G.P., Dubner, R., Goldstein, D. and Dionne, R.A.
Corticotropin-releasing factor (CRF) produces analgesia in humans and rats, **422**, 154
- Haroutunian, V., Mantin, R., Campbell, G.A., Tsuboyama, G.K. and Davis, K.L.
Cysteamine-induced depletion of central somatostatin-like immunoreactivity: effects on behavior, learning, memory and brain neurochemistry, **403**, 234
- Harrell, L.E., Parsons, D.S., Peagler, A. and Barlow, T.S.
Alterations in regulatory behaviors induced by medial septal lesions and superior cervical ganglionectomy, **408**, 131
- Harrelson, A. and McEwen, B.
Gonadal steroid modulation of neurotransmitter-stimulated cAMP accumulation in the hippocampus of the rat, **404**, 89
- Harrington, M.E., Nance, D.M. and Rusak, B.
Double-labeling of neuropeptide Y-immunoreactive neurons which project from the geniculate to the suprachiasmatic nuclei, **410**, 275
- Harris, E.W., Stevens, D.R. and Cotman, C.W.
Hippocampal cells primed with quisqualate are depolarized by AP4 and AP6, ligands for a putative glutamate uptake site, **418**, 361
- Harris, J.C. and Newman, J.D.
Mediation of separation distress by α_2 -adrenergic mechanisms in a non-human primate, **410**, 353
- Harris, L.R.
The eye movements evoked by a rotating linear acceleration vector in the cat depend on a central velocity storage mechanism, **437**, 393
- Harris-Warrick, R.M. and Johnson, B.R.
Potassium channel blockade induces rhythmic activity in a conditional burster neuron, **416**, 381
- Harrison, B.M.
Schwann cells divide in a demyelinating lesion of the central nervous system, **409**, 163
- Harrison, T.S., see Dundore, R.L., **401**, 122
- Harry, G.J., see Tilson, H.A., **408**, 163
- Hartman, P.J., see Wilson, J.S., **423**, 329
- Hartung, H.-P. and Toyka, K.V.
Leukotriene production by cultured astroglial cells, **435**, 367
- Hartung, H.-P. and Toyka, K.V.
Phorbol diester TPA elicits prostaglandin E release from cultured rat astrocytes, **417**, 347
- Hartung, K. and Hermann, A.
Differential effects of pentylentetrazole on ion currents of *Aplysia* neurones, **419**, 55
- Hasegawa, A., Ohtsubo, K. and Mori, W.
Pineal gland in old age; quantitative and qualitative morphological study of 168 human autopsy cases, **409**, 343
- Hashimoto, S., see Kamata, K., **421**, 353
- Hassall, C.J.S. and Burnstock, G.
Immunocytochemical localisation of neuropeptide Y and 5-hydroxytryptamine in a subpopulation of amine-handling intracardiac neurones that do not contain dopamine β -hydroxylase in tissue culture, **422**, 74
- Hatakenaka, S., see Pasteels, B., **412**, 107
- Hatakeyama, T., see Matsumoto, M., **424**, 231
- Hatanaka, H., see Maruyama, M., **401**, 14
- Hatase, O., see Matsui, H., **402**, 193
- Hatfield, J.S., see Drescher, M.J., **417**, 39
- Hattori, T., see Takada, M., **418**, 129
- Hattori, T., see Takada, M., **418**, 27
- Hattori, T., see Takada, M., **436**, 129
- Hauser, K., see Altar, C.A., **410**, 1
- Hauser, K.F., MacLusky, N.J. and Toran-Allerand, C.D.
Androgen action in fetal mouse spinal cord cultures: metabolic and morphologic aspects, **406**, 62
- Hauser, K.F., McLaughlin, P.J. and Zagon, I.S.
Endogenous opioids regulate dendritic growth and spine formation in developing rat brain, **416**, 157
- Hautamaki, R.D., see O'Malley, C.A., **403**, 389
- Hawkes, R., see Gravel, C., **422**, 327
- Hawkes, R.A., see Beesley, P.W., **408**, 65
- Hawkins, M.F., see Baumeister, A.A., **411**, 183
- Hayakawa, T., see Matsuyama, T., **418**, 325
- Hayakawa, T., see Wanaka, A., **435**, 91
- Hayashi, E., see Yamada, S., **410**, 212
- Hayashi, H., see Ando-Yamamoto, M., **410**, 269
- Hayashi, K., see Sandner, G., **421**, 150
- Hayashi, M., see Patel, A.J., **422**, 182
- Hayashi, N., see Lee, Y., **407**, 149
- Hayashi, R., Becker, W.J., White, D.G. and Lee, R.G.
Effects of ischemic nerve block on the early and late components of the stretch reflex in the human forearm, **403**, 341
- Hayes, K.C., see Sullivan, S.J., **412**, 139
- Hayes, R.L., see Leichnetz, G.R., **416**, 195
- Hayes, R.L., see Leichnetz, G.R., **422**, 389
- Hayward, J.N., see Meeker, M.L., **423**, 45
- Head, G.A., Badoer, E. and

- Korner, P.I.
Cardiovascular role of A₁ catecholaminergic neurons in the rabbit. Effect of chronic lesions on responses to methyl dopa, clonidine and 6-OHDA induced transmitter release, **412**, 18
- Head, G.A., see Korner, P.I., **435**, 258
- Head, V.A., see McIntosh, T.K., **425**, 225
- Healy, D.P., see Gerstberger, R., **400**, 165
- Hedger, S.C., see Blessing, W.W., **419**, 336
- Hedlund, B. and Barker, J.L.
Carbachol changes spike-generation properties of GH₃ pituitary cells, **402**, 311
- Hefti, F., see Vibulsreth, S., **422**, 303
- Heid, J., see Olpe, H.R., **412**, 269
- Heidemann, S.R., see Baas, P.W., **420**, 73
- Heilig, M., see Wahlestedt, C., **417**, 33
- Heimer, L., see Zahm, D.S., **404**, 327
- Heinemann, U.H., see Jones, R.S.G., **416**, 257
- Heizmann, C.W., see Arai, H., **418**, 164
- Heizmann, C.W., see Kawaguchi, Y., **416**, 369
- Heizmann, C.W., see Kosaka, T., **409**, 403
- Heizmann, C.W., see Kosaka, T., **411**, 373
- Heizmann, C.W., see Kosaka, T., **419**, 119
- Held, I.R., Sayers, S.T., Yeoh, H.C. and McLane, J.A.
Role of cholinergic neuromuscular transmission in the neuroregulation of the autophosphorylatable regulatory subunit of cyclic AMP-dependent protein kinase type II and the acetylcholine receptor content in skeletal muscle, **407**, 341
- Heldt, R., see Baran, H., **404**, 107
- Helke, C.J., see Charlton, C.G., **418**, 245
- Heller, H.C., see Glotzbach, S.F., **419**, 279
- Hemenway, C.C., see Zivin, J.A., **435**, 305
- Henderson, Z.
A small proportion of cholinergic neurones in the nucleus basalis magnocellularis of ferret appear to stain positively for tyrosine hydroxylase, **412**, 363
- Henderson, Z.
Source of cholinergic input to ferret visual cortex, **412**, 261
- Hendry, I.A., Hill, C.E. and McLennan, I.S.
RU38486 blocks the steroid regulation of transmitter choice in cultured rat sympathetic ganglia, **402**, 264
- Hendry, I.A., see Duggan, A.W., **403**, 345
- Hendry, S.H.C., see Molinari, M., **426**, 270
- Henke, H., Sigrist, S., Lang, W., Schneider, J. and Fischer, J.A.
Comparison of binding sites for the calcitonin gene-related peptides I and II in man, **410**, 404
- Henke, P.G., see Ray, A., **409**, 398
- Henneberry, R.C., see Novelli, A., **411**, 291
- Henry, J.L., see Sessle, B.J., **407**, 163
- Henry, J.M., Joseph, J.A., Kochman, K. and Roth, G.S.
Effect of aging on striatal dopamine receptor subtype recovery following N-ethoxycarbonyl-2-ethoxy-1,2-dihydroquinoline blockade and relation to motor function in Wistar rats, **418**, 334
- Henry, M.E., see Zivin, J.A., **435**, 305
- Henschel, B., see Ramirez, J.J., **414**, 85
- Henshaw, D., see Reppert, S.M., **403**, 398
- Herbert, D.A., see Mitchell, R.A., **437**, 157
- Herkenham, M., see Brady, L.S., **425**, 212
- Herman, J.P., see Choulli, K., **407**, 376
- Hermann, A., see Hartung, K., **419**, 55
- Hermann, K., Raizada, M.K., Summers, C. and Phillips, M.I.
Presence of renin in primary neuronal and glial cells from rat brain, **437**, 205
- Hernandez, D.E., Jennes, C. and Emerick, S.G.
Brain vasoactive intestinal peptide: a potent stimulant of gastric acid secretion, **420**, 129
- Hernandez, D.E., Jennes, L. and Emerick, S.G.
Inhibition of gastric acid secretion by immunoneutralization of endogenous brain thyrotropin-releasing hormone, **401**, 381
- Hernandez, E.N., see Flood, J.F., **421**, 280
- Hernández-Cáceres, J., Macías-González, R., Brožek, G. and Bureš, J.
Systemic ketamine blocks cortical spreading depression but does not delay the onset of terminal anoxic depolarization in rats, **437**, 360
- Hernández R., J.
Brain Na⁺, K⁺-ATPase activity possibly regulated by a specific serotonin receptor, **408**, 399
- Herndon, R.M., see Meshul, C.K., **402**, 139
- Herrera, N., see Sanchez-Ferrer, C.F., **411**, 304
- Herreras, O., Solís, J.M., Del Rio, R.M. and Lerma, J.
Characteristics of CA₁ activation through the hippocampal trisynaptic pathway in the unanaesthetized rat, **413**, 75
- Herrick, K.F., see Carlson, J.N., **400**, 200
- Herrling, P.L., see Turski, W.A., **414**, 330
- Hersh, L.B., see Carpenter, M.B., **408**, 275
- Hersh, L.B., see Carpenter, M.B., **418**, 403
- Hersh, L.B., see Tago, H., **415**, 49
- Hertting, G., see Baran, H., **404**, 107
- Hertting, G., see Seregi, A., **404**, 113
- Hertz, L., see Bender, A.S., **436**, 189
- Hervé, D., Pickel, V.M., Joh, T.H. and Beaudet, A.
Serotonin axon terminals in the ventral tegmental area of the rat: fine structure and synaptic input to dopaminergic neurons, **435**, 71
- Herz, A., see Ableitner, A., **403**, 82
- Herz, A., see Millan, M.J., **407**, 199
- Herz, A., see Millan, M.J., **416**, 349
- Herz, A., see Millan, M.J., **435**, 97
- Herz, A., see Nikolarakis, K., **421**, 373
- Herz, A., see Przewlocki, R., **413**, 213
- Herz, A., see Shippenberg, T.S., **436**, 169
- Herz, A., see Shippenberg, T.S., **436**, 234
- Hettinger, T.P., see Whitehead, M.C., **405**, 192
- Hewitt, J.K., Hahn, M.E. and Karkowski, L.M.
Genetic selection disrupts stability of mouse brain weight development, **417**, 225
- Hexum, T.D. and Russett, L.R.
Plasma enkephalin-like peptide response to chronic nicotine infusion in guinea pig, **406**, 370
- Heyman, J.S., Mulvaney, S.A., Mosberg, H.I. and Porreca, F.
Opioid δ -receptor involvement in supraspinal and spinal antinociception in mice, **420**, 100
- Hicks, D., see Akagawa, K., **437**, 298
- Hicks, T.P., Locock, R.A. and Jason, G.W.
Is octopamine a 'false transmitter'? Regional distribution and serial changes in octopamine and noradrenaline following locus coeruleus lesions, **421**, 315
- Hidaka, I., see Kanwal, J.S., **406**, 105
- Higashi, S., see Murakami, F., **437**, 379
- Higgins, T.D., see Baumeister, A.A., **411**, 183
- Higuchi, T., see Negoro, H., **404**, 371
- Hikosaka, K., see Iwai, E., **410**, 121
- Hilaire, G., see Saether, K., **419**, 87
- Hildebrand, C., see Brismar, T., **423**, 135
- Hilgenfeldt, U., see Imboden, H., **410**, 74
- Hill, C.E., see Hendry, I.A., **402**, 264
- Hill, J.M., see Ostrowski, N.L., **421**, 1
- Hill, R.H., see Moore, L.E., **419**, 397
- Hille, C., see Cross, A.J., **418**, 343
- Hillegaart, V., see Ahlenius, S., **402**, 131
- Hiller, J.M., Itzhak, Y. and Simon, E.J.
Selective changes in μ , δ and κ opioid receptor binding in certain limbic regions of the brain in Alzheimer's disease patients, **406**, 17
- Hillman, G.R., see Carlton, S.M., **426**, 310

- Hillyard, C.J., see Kawai, Y., **409**, 371
Hillyard, C.J., see Lee, Y., **407**, 149
Hingtgen, J., see Smith, G.N., **400**, 399
Hingtgen, J.N., see Shekhar, A., **420**, 118
Hirakawa, K., see Hamasaki, T., **422**, 172
Hirano, S., see Sugaya, E., **406**, 270
Hirano, T., Woody, C., Birt, D., Aou, S., Miyake, J. and Nenov, V. Pavlovian conditioning of discriminatively elicited eyeblink responses with short onset latency attributable to lengthened interstimulus intervals, **400**, 171
Hirata, T., Kubota, I., Takabatake, I., Kawahara, A., Shimamoto, N. and Muneoka, Y. Catch-relaxing peptide isolated from *Mytilus* pedal ganglia, **422**, 374
Hobson, J.A., see Baghdoyan, H.A., **414**, 245
Hocherman, S., see Yirmiya, R., **402**, 93
Hodgson, T., see Grober, M.S., **436**, 148
Hodin, R.A., see Kreisman, N.R., **417**, 335
Hoebel, B.G., see Glimcher, P.W., **403**, 147
Hof, P.R., see Magistretti, P.J., **403**, 181
Hofbauer, K.G., see Berecek, K.H., **401**, 303
Hoffer, B.J., see Gerhardt, G.A., **413**, 327
Hoffer, B.J., see Granholm, A.-C., **423**, 71
Hoffmann, K., see Illnerová, H., **417**, 167
Hoffmann, K.-P., see Horn, A.K.E., **409**, 133
Hofmann, W.W. Musculotrophic effects of insulin receptors before and after denervation, **401**, 312
Hogan, E.L., see Banik, N.L., **435**, 57
Hoheisel, U. and Mense, S. Observations on the morphology of axons and somata of slowly conducting dorsal root ganglion cells in the cat, **423**, 269
Hökfelt, T., see Buchanan, J.T., **408**, 299
Hökfelt, T., see Holets, V.R., **408**, 141
Hökfelt, T., see Millhorn, D.E., **410**, 179
Hökfelt, T., see Millhorn, D.E., **424**, 99
Hökfelt, T., see Ulfhake, B., **419**, 387
Holaday, J.W., see Long, J.B., **436**, 374
Holdefer, R.N. and Jensen, R.A. The effects of peripheral D-amphetamine, 4-OH amphetamine, and epinephrine on maintained discharge in the locus coeruleus with reference to the modulation of learning and memory by these substances, **417**, 108
Holets, V.R., Hökfelt, T., Ude, J., Eckert, M., Penzlin, H., Verhofstad, A.A.J. and Visser, T.J. A comparative study of the immunohistochemical localization of a presumptive proctolin-like peptide, thyrotropin-releasing hormone and 5-hydroxytryptamine in the rat central nervous system, **408**, 141
Holford, N.H.G., see Faull, R.L.M., **411**, 379
Holley, A., see Astic, L., **424**, 144
Hollyfield, J.G., see Hutchins, J.B., **400**, 300
Höllt, V., see Przewłocki, R., **413**, 213
Holmes, L., see Clarke, D., **421**, 358
Holohean, A.M., see Hackman, J.C., **407**, 94
Holt, I.L., see Chiappinelli, V.A., **402**, 21
Holt, S.J., Wheal, H.V. and York, D.A. Hypothalamic control of brown adipose tissue in Zucker lean and obese rats. Effect of electrical stimulation of the ventromedial nucleus and other hypothalamic centres, **405**, 227
Holtman Jr., J.R., Dick, T.E. and Berger, A.J. Serotonin-mediated excitation of recurrent laryngeal and phrenic motoneurons evoked by stimulation of the raphe obscurus, **417**, 12
Homma, I., see Onimaru, H., **403**, 380
Honda, K., see Negoro, H., **404**, 371
Hong, J.-S., see Lee, R.J., **401**, 353
Hong, J.-S., see Mitchell, C.L., **435**, 343
Hong, J.S., see Sivam, S.P., **412**, 29
Hong, J.S., see Tilson, H.A., **408**, 163
Honrubia, V., see Elidan, J., **423**, 385
Hoogendijk, J.E., see Roozendaal, B., **409**, 259
Hoogland, P.V.J.M., see Stoof, J.C., **404**, 273
Hoover, R.L., see Rutten, M.J., **425**, 301
Hoppens, K.S., see Fuchs, J.L., **407**, 9
Höpp, H.-P., Reuter, G., Reiser, G. and Hamprecht, B. Angiotensin evokes in polyploid rat glioma cells hyperpolarization-depolarization responses and cross-desensitization with bradykinin, **412**, 175
Höpp, H.-P., see Reiser, G., **402**, 164
Hordes, A.R., see Zottoli, S.J., **401**, 113
Hori, N., see Oyama, Y., **417**, 143
Horie, H., Kawasaki, Y. and Takenaka, T. Cell membrane expansion and blockade of action potentials produced by 2-decenoic acid in cultured dorsal root ganglion neurons, **411**, 298
Horie, H., Takenaka, T., Ito, S. and Kim, S.U. Taxol counteracts colchicine blockade of axonal transport in neurites of cultured dorsal root ganglion cells, **420**, 144
Horio, Y., see Inagaki, N., **402**, 197
Horn, A.K.E. and Hoffmann, K.-P. Combined GABA-immunocytochemistry and TMB-HRP histochemistry of pretectal nuclei projecting to the inferior olive in rats, cats and monkeys, **409**, 133
Horn, K.M. and Carey, R.G. Kainic acid-induced terminal degeneration in the dorsal lateral geniculate of tree shrew, **416**, 187
Hornung, D.E., Youngentob, S.L. and Mozell, M.M. Olfactory mucosa/air partitioning of odorants, **413**, 147
Hörtnagl, H., Potter, P.E. and Hanin, I. Effect of cholinergic deficit induced by ethylcholine aziridinium (AF64A) on noradrenergic and dopaminergic parameters in rat brain, **421**, 75
Horváth, E., see Wree, A., **436**, 283
Horwitz, B., Grady, C.L., Schlageter, N.L., Duara, R. and Rapoport, S.I. Intercorrelations of regional cerebral glucose metabolic rates in Alzheimer's disease, **407**, 294
Horwitz, G.J., see Flood, D.G., **402**, 205
Hose, B., Langner, G. and Scheich, H. Topographic representation of periodicities in the forebrain of the mynah bird: one map for pitch and rhythm?, **422**, 367
Hoskin, R.W., see Duffin, J., **435**, 351
Hosokawa, S., see Aiko, Y., **408**, 47
Hosoya, E., see Sugaya, E., **406**, 270
Hoss, W., see Messer Jr., W.S., **407**, 27
Hoss, W., see Messer Jr., W.S., **407**, 37
Hoss, W., see Messer Jr., W.S., **407**, 46
Hossmann, K.-A., see Drewes, L.R., **401**, 55
Hostetler, A.M., see Moran, T.H., **415**, 149
Hou, L.-T., see Whitehead, M.C., **405**, 192
Houser, C.R., see Matthews, D.A., **402**, 30
Houser, C.R., see Olsen, R.W., **402**, 243
Hoyer, D., see Palacios, J.M., **419**, 65
Hryciyshyn, A.W., see Elisevich, K., **408**, 227
Hsu, L.L., Yu, J.-R., Upp Jr., J.R., Glass, E.J. and Townsend, C.M. Chronic bombesin treatment increased the [³H]spiperone binding, glutamate decarboxylase and choline acetyltransferase activity in the rat brain, **417**, 232
Hu, X.-T., see Hand, T.H., **415**, 257
Hu, X.-T., see Mereu, G., **408**, 210
Huang, J.C. and Peroutka, S.J. Identification of 5-hydroxytryptamine₁ binding site subtypes in rat spinal cord, **436**, 173
Hubbard, J.W., Buchholz, R.A., Keeton, T.K. and Nathan, M.A.

- Parabrachial lesions increase plasma norepinephrine concentration, plasma renin activity and enhance baroreflex sensitivity in the conscious rat, **421**, 226
- Huchet, A.-M., see Huguet, F., **412**, 125
- Hudson, D.J., see Ebihara, S., **416**, 136
- Hudson, P.M., see Mitchell, C.L., **435**, 343
- Hudson, P.M., see Sivam, S.P., **412**, 29
- Hudson, R. and Distel, H.
Regional autonomy in the peripheral processing of odor signals in newborn rabbits, **421**, 85
- Huffman, R.D., see Frey, J.M., **425**, 73
- Hughes, A.M., Everitt, B.J., Lightman, S.L. and Todd, K.
Oxytocin in the central nervous system and sexual behaviour in male rats, **414**, 133
- Huguet, F., Huchet, A.-M., Gerard, P. and Narcisse, G.
Characterization of dihydropyridine binding sites in the rat brain: hypertension and age-dependent modulation of [³H](+)-PN 200-110 binding, **412**, 125
- Huguet, F., see Brisac, A.-M., **435**, 160
- Hui Kang, D., see Perry, G., **420**, 233
- Hull, C.D., see Levine, M.S., **401**, 213
- Hull, C.D., see Levine, M.S., **405**, 389
- Hulsebosch, C.E., Coggeshall, R.E. and Perez-Polo, J.R.
Persistence of anti-NGF induced dorsal root axons: possible penetration into the mammalian spinal cord, **411**, 267
- Hunt, A., see Patel, A.J., **422**, 182
- Hunt, C.A., Seroogy, K.B., Gall, C.M. and Jones, E.G.
Cholecystokinin innervation of rat thalamus, including fibers to ventroposterolateral nucleus from dorsal column nuclei, **426**, 257
- Hunt, S.P., see Waters, C.M., **412**, 244
- Huntley, G.W., see Morrison, J.H., **416**, 331
- Huopaniemi, T., see Pertovaara, A., **422**, 205
- Hurd, Y., see Lapin, E.P., **407**, 351
- Huston, J.P., Kiefer, S., Buscher, W. and Muñoz, C.
Lateralized functional relationship between the preoptic area and lateral hypothalamic reinforcement, **436**, 1
- Huston, J.P., see Schwarting, R., **417**, 75
- Hutchins, J.B. and Hollyfield, J.G.
Acetylcholinesterase in the human retina, **400**, 300
- Hwang, J.C., see Chan, Y.S., **406**, 294
- Hyde, J.F. and Jerussi, T.P.
Unilateral cerebral drug administration: pharmacokinetics of haloperidol and amphetamine, **421**, 117
- Hydén, H., Cupello, A. and Palm, A.
Increase in chloride ion permeability across the nerve cell membrane after the endogenous antigen S-100 incorporation, **404**, 405
- Hylden, J.L.K., Nahin, R.L. and Dubner, R.
Altered responses of nociceptive cat lamina I spinal dorsal horn neurons after chronic sciatic neuroma formation, **411**, 341
- Hyman, S., McComb, J.G., Megerdichian, L. and Weiss, M.H.
Blood-cerebrospinal fluid barrier alteration following intraventricularly administered cholera toxin, **419**, 104
- I**
- Iadecola, C., see Arnerić, S.P., **411**, 212
- Ibayashi, S., see Sadoshima, S., **413**, 297
- Icard-Liepkalns, C., see Shimahara, T., **415**, 357
- Ichikawa, M.
Synaptic reorganization in the medial amygdaloid nucleus after lesion of the accessory olfactory bulb of adult rat. I. Quantitative and electron microscopic study of the recovery of synaptic density, **420**, 243
- Ichikawa, M.
Synaptic reorganization in the medial amygdaloid nucleus after lesion of the accessory olfactory bulb of adult rat. II. New synapse formation in the medial amygdaloid nucleus by fibers from the bed nucleus of the stria terminalis, **420**, 253
- Ichikawa, M., Arissian, K. and Asanuma, H.
Reorganization of the projection from the sensory cortex to the motor cortex following elimination of the thalamic projection to the motor cortex in cats; Golgi, electron microscope and degeneration study, **437**, 131
- Ide, C.
Role of extracellular matrix in the regeneration of a pacinian corpuscle, **413**, 155
- Igarashi, M., see Usami, S.-I., **417**, 367
- Igarashi, M., see Usami, S.-I., **418**, 383
- Iizuka, H., see Iwasaki, Y., **406**, 99
- Iizuka, S., see Sugaya, E., **406**, 270
- Ikarashi, K., see Shojaku, H., **416**, 100
- Ikeda, K. and Tomonaga, M.
The presence of creatine kinase (CK)-immunoreactive neurons in the zona incerta and lateral hypothalamic area of the mouse brain, **435**, 348
- Ikeda, M., see Michael, A.C., **421**, 325
- Ikeda, M., see Yoshida, S., **412**, 114
- Ikuta, F., see Oyanagi, K., **411**, 205
- Illnerová, H., see Vaněček, J., **435**, 359
- Illnerová, H., Vaněček, J. and Hoffmann, K.
Adjustment of the rat pineal N-acetyltransferase rhythm to eight-hour shifts of the light-dark cycle: advance of the cycle disturbs the rhythm more than delay, **417**, 167
- Imafuku, J.
The characterization of [³H]sulpiride binding sites in rat striatal membranes, **402**, 331
- Imai, S., see Onozuka, M., **420**, 259
- Inaizumi, S., see Tominaga, T., **402**, 370
- Imazato-Tanaka, C., see Washio, H., **416**, 69
- Imboden, H., Harding, J.W., Abhold, R.H., Ganten, D. and Felix, D.
Improved immunohistochemical staining of angiotensin II in rat brain using affinity purified antibodies, **426**, 225
- Imboden, H., Harding, J.W., Hilgenfeldt, U., Celio, M.R. and Felix, D.
Localization of angiotensinogen in multiple cell types of rat brain, **410**, 74
- Imura, H., see Murakami, Y., **407**, 405
- Inagaki, C., Oda, W., Kondo, K. and Kusumi, M.
Histochemical demonstration of Cl⁻-ATPase in rat spinal motoneurons, **419**, 375
- Inagaki, N., Kamisaki, Y., Kiyama, H., Horio, Y., Tohyama, M. and Wada, H.
Immunocytochemical localizations of cytosolic and mitochondrial glutamic oxaloacetic transaminase isozymes in rat primary sensory neurons as a marker for the glutamate neuronal system, **402**, 197
- Inagaki, N., Yamatodani, A., Shinoda, K., Shiotani, Y., Tohyama, M., Watanabe, T. and Wada, H.
The histaminergic innervation of the mesencephalic nucleus of the trigeminal nerve in rat brain: a light and electron microscopical study, **418**, 388
- Inagaki, S., see Kubota, Y., **406**, 147
- Inagaki, S., see Kubota, Y., **413**, 179
- Inagaki, S., see Kubota, Y., **415**, 385
- Inagaki, S., see Shimada, S., **425**, 256
- Inase, M., Nakahama, H., Otsuki, T. and Fang, J.
Analgesic effects of serotonin microinjection into nucleus raphe magnus and nucleus raphe dorsalis evaluated by the monosodium urate (MSU) tonic pain model in the rat, **426**, 205
- Inenaga, K. and Mason, W.T.

- Chloride channels activated by γ -aminobutyric acid in normal bovine lactotrophs, **405**, 159
- Inenaga, K., Osaka, T. and Yamashita, H.
Thermosensitivity of neurons in the paraventricular nucleus of the rat slice preparation, **424**, 126
- Inenaga, K., see Okuya, S., **402**, 58
- Inenaga, K., see Yamashita, H., **405**, 348
- Inenaga, K., see Yamashita, H., **416**, 364
- Inestrosa, N.C., Sunkel, C. and Arriagada, J.
The sensory projections of *Drosophila* mutants which show abnormal wing formation or flying behavior, **416**, 248
- Infante, C., see Motles, E., **405**, 165
- Innes, D., see Kavaliers, M., **425**, 49
- Innis, R.B. and Aghajanian, G.K.
Pertussis toxin blocks autoreceptor-mediated inhibition of dopaminergic neurons in rat substantia nigra, **411**, 139
- Inomata, H., see Kubota, T., **421**, 30
- Inoue, Y., see Terashima, T., **436**, 384
- Inoue, H., see Obata, K., **404**, 169
- Inoue, H.K., see Shirao, T., **413**, 374
- Inoue, M., Sadoshima, J. and Akaike, N.
Different actions of intracellular free calcium on resting and GABA-gated chloride conductances, **404**, 301
- Inoue, T., Nagara, H., Kondo, A., Fukui, M. and Tateishi, J.
Effects of intracarotid hyperosmolar mannitol in triethyl tin (TET)-induced rat brain edema — preservation of blood-brain barrier (BBB) in TET edema, **414**, 309
- Inoue, T., see Inui, A., **417**, 355
- Inoue, T., see Kondo, A., **412**, 73
- Inoue, T., see Murakami, Y., **407**, 405
- Inoue, Y., see Terashima, T., **410**, 97
- Inoue, Y., see Terashima, T., **417**, 190
- Insel, T.R., see Marangos, P.J., **421**, 69
- Inui, A., Inoue, T., Sakatani, N., Oya, M., Morioka, H. and Baba, S.
Proglumide has access to brain and antagonizes the central satiety effect of cholecystokinin octapeptide in the dog, **417**, 355
- Irie, K. and Wurtman, R.J.
Release of norepinephrine from rat hypothalamic slices: effects of desipramine and tyrosine, **423**, 391
- Irwin, I., see Ricaurte, G.A., **403**, 43
- Isaac, L., see Caudle, R.M., **435**, 1
- Ishida, R., see Fukuchi, I., **400**, 53
- Ishige, A., see Sugaya, E., **406**, 270
- Ishihara, T., see Nakagawa, Y., **408**, 57
- Ishihara, A., Naitoh, H. and Katsuta, S.
Effects of ageing on the total number of muscle fibers and motoneurons of the tibialis anterior and soleus muscles in the rat, **435**, 355
- Ishikawa, K. and Frohman, L.A.
Ontogenesis of peptide-histidine-isoleucine (PHI)-containing neurons in the suprachiasmatic nucleus (SCN) of the rat, **407**, 144
- Ishikawa, S.-E., see Shibuki, K., **410**, 140
- Ishikawa, Y., see Murakami, Y., **407**, 405
- Ishise, J. and Rosenbluth, J.
Nodal and paranodal structure during Wallerian degeneration in frog spinal nerve, **418**, 85
- Ishituka, T., see Yoshida, F., **412**, 1
- Isobe, T., see Semba, R., **401**, 9
- Issekutz, B., see Szerb, J.C., **410**, 116
- Itano, T., see Matsui, H., **402**, 193
- Itaya, S.K.
Anterograde transsynaptic transport of WGA-HRP in rat olfactory pathways, **409**, 205
- Ito, F., see Fujitsuka, N., **415**, 144
- Ito, K. and McCarley, R.W.
Physiological studies of brainstem reticular connectivity. I. Responses of mPRF neurons to stimulation of bulbar reticular formation, **409**, 97
- Ito, K., see Kudo, Y., **407**, 168
- Ito, K., see McCarley, R.W., **409**, 111
- Ito, S., see Horie, H., **420**, 144
- Itoh, K., Kamiya, H., Mitani, A., Yasui, Y., Takada, M. and Mizuno, N.
Direct projections from the dorsal column nuclei and the spinal trigeminal nuclei to the cochlear nuclei in the cat, **400**, 145
- Itoh, K., see Sugaya, E., **406**, 270
- Itoh, K., see Yasui, Y., **408**, 334
- Itzhak, Y., see Hiller, J.M., **406**, 17
- Iuvone, P.M., Boatright, J.H. and Bloom, M.M.
Dopamine mediates the light-evoked suppression of serotonin *N*-acetyltransferase activity in retina, **418**, 314
- Ivorra, I., see Morales, A., **401**, 340
- Iwai, E., Aihara, T. and Hikosaka, K.
Inferotemporal neurons of the monkey responsive to auditory signal, **410**, 121
- Iwama, K., see Sumitomo, I., **415**, 389
- Iwamoto, M., see Ando, S., **405**, 371
- Iwasaki, Y., Yamamoto, H., Iizuka, H., Yamamoto, T. and Konno, H.
Suppression of neurofilament degradation by protease inhibitors in experimental spinal cord injury, **406**, 99
- Iwata, H., see Matsuda, T., **437**, 375
- Iwata, J., Chida, K. and LeDoux, J.E.
Cardiovascular responses elicited by stimulation of neurons in the central amygdaloid nucleus in awake but not anesthetized rats resemble conditioned emotional responses, **418**, 183
- Iyengar, S., Kim, H.S. and Wood, P.L.
 μ -, δ -, κ - and ϵ -Opioid receptor modulation of the hypothalamic-pituitary-adrenocor-
- tical (HPA) axis: subchronic tolerance studies of endogenous opioid peptides, **435**, 220
- Izumi, Y., see Kudo, Y., **407**, 168
- Izumiyama, K., Kogure, K., Kataoka, S. and Nagata, T.
Quantitative analysis of glucose after transient ischemia in the gerbil hippocampus by light and electron microscope radioautography, **416**, 175
- J**
- Jackson, I.M.D., see Anthony, E.L.P., **424**, 258
- Jackson, I.M.D., see Bruhn, T.O., **424**, 290
- Jackson, K.F., see Duncan, I.D., **402**, 168
- Jackson, W.J., see Rogers III, O.L., **403**, 96
- Jacobowitz, D.M., see Sills, M.A., **401**, 195
- Jacobs, B.L., see Morilak, D.A., **422**, 17
- Jacobs, B.L., see Morilak, D.A., **422**, 24
- Jacobs, B.L., see Morilak, D.A., **422**, 32
- Jacobs, G.H., see Bronstein, D.M., **406**, 352
- Jacobs, M.S., see Glezer, I.I., **414**, 202
- Jacobson, C.D., Arnold, A.P. and Gorski, R.A.
Steroid autoradiography of the sexually dimorphic nucleus of the preoptic area, **414**, 349
- Jacomot, Y., see Lombet, A., **417**, 327
- Jaffard, R., see Caudarella, M., **435**, 202
- Jaffe, D.B., Aitken, P.G. and Nadler, J.V.
The effects of cholecystokinin and cholecystokinin antagonists on synaptic function in the CA1 region of the rat hippocampal slice, **415**, 197
- Jaffer, A., Russell, V.A. and Taljaard, J.J.F.
Noradrenergic and dopaminergic modulation of thyrotropin secretion in the rat, **404**, 267
- Jahan-Parwar, B., Rozsa, K.S., Salanki, J., Evans, M.L. and Carpenter, D.O.
In vivo labeling of serotonin-containing neurons by 5,7-dihydroxytryptamine in *Aplysia*, **426**, 173
- Jakubovic, A., see Phillips, A.G., **402**, 109
- Jakubovic, D.E., Grinstein, S. and Klip, A.
Cell swelling following recovery

- from acidification in C6 glioma cells: an in vitro model of postischemic brain edema, **435**, 138
- Janáky, T., see Laczi, F., **403**, 155
- Jancsó, G. and Maggi, C.A.
Distribution of capsaicin-sensitive urinary bladder afferents in the rat spinal cord, **418**, 371
- Janigro, D. and Schwartzkroin, P.A.
Dissociation of the IPSP and response to GABA during spreading depression-like depolarizations in hippocampal slices, **404**, 189
- Janowsky, A., see Conn, P.J., **400**, 396
- Janss, A.J., Cox, B.F., Brody, M.J. and Gebhart, G.F.
Dissociation of antinociceptive from cardiovascular effects of stimulation in the lateral reticular nucleus in the rat, **405**, 140
- Janss, A.J., Jones, S.L. and Gebhart, G.F.
Effect of spinal norepinephrine depletion on descending inhibition of the tail flick reflex from the locus coeruleus and lateral reticular nucleus in the rat, **400**, 40
- Jarrell, T.W., Gentile, C.G., Romanski, L.M., McCabe, P.M. and Schneiderman, N.
Involvement of cortical and thalamic auditory regions in retention of differential bradycardiac conditioning to acoustic conditioned stimuli in rabbits, **412**, 285
- Jarrott, B., see Shulkes, A., **415**, 404
- Jarrott, B., see Verberne, A.J.M., **426**, 243
- Jarry, T., see Vion-Dury, J., **408**, 243
- Jarry, H.D., see Lookingland, K.J., **419**, 303
- Jarry, T., see Eybalin, M., **418**, 189
- Jasinski, D.R., see Fanelli, R.J., **422**, 257
- Jason, G.W., see Hicks, T.P., **421**, 315
- Javoy-Agid, F., see Delay-Goyet, P., **414**, 8
- Javoy-Agid, F., see Taquet, H., **411**, 178
- Jeanet, Y., see Caudarella, M., **435**, 202
- Jeffrey, P.L., see French, P.W., **420**, 324
- Jégou, S., Delbende, C., Tranchand-Bunel, D., Leroux, P. and Vaudry, H.
 α -Melanocyte-stimulating hormone (α -MSH) release from perfused rat hypothalamic slices, **413**, 259
- Jégou, S., see Delbende, C., **423**, 203
- Jen, P.H.-S., see Sun, X., **414**, 314
- Jen, P.H.-S., see Zhang, S., **416**, 375
- Jen, P.H.-S., Sun, X., Chen, D. and Teng, H.
Auditory space representation in the inferior colliculus of the FM bat, *Eptesicus fuscus*, **419**, 7
- Jenck, F., Gratton, A. and Wise, R.A.
Opioid receptor subtypes associated with ventral tegmental facilitation of lateral hypothalamic brain stimulation reward, **423**, 34
- Jenck, F., Quirion, R. and Wise, R.A.
Opioid receptor subtypes associated with ventral tegmental facilitation and periaqueductal gray inhibition of feeding, **423**, 39
- Jeneskog, T.
Termination in posterior and anterior cerebellum of a climbing fibre pathway activated from the nucleus of Darkschewitsch in the cat, **412**, 185
- Jennekens, F.G.I., see Verhaagen, J., **404**, 142
- Jenner, P., see Waters, C.M., **412**, 244
- Jennes, C., see Hernandez, D.E., **420**, 129
- Jennes, L.
Sites of origin of gonadotropin releasing hormone containing projections to the amygdala and the interpeduncular nucleus, **404**, 339
- Jennes, L., see Hernandez, D.E., **401**, 381
- Jennings, A.R., see Carroll, W.M., **411**, 364
- Jennings, I.G., see Haan, E.A., **426**, 19
- Jenq, C.-B. and Coggeshall, R.E.
Permeable tubes increase the length of the gap that regenerating axons can span, **408**, 239
- Jenq, C.-B. and Coggeshall, R.E.
Sciatic nerve regeneration after autologous sural nerve transplantation in the rat, **406**, 52
- Jenq, C.-B. and Coggeshall, R.E.
Single vs multiple somatic nerve crushes in the rat, **409**, 250
- Jensen, R.A., see Holdefer, R.N., **417**, 108
- Jeremy, J., Murphy, S., Morrow, C., Pearce, B. and Dandona, P.
Phorbol ester stimulation of prostanoid synthesis by cultured astrocytes, **419**, 364
- Jerusalinsky, D., see Pazo, J.H., **414**, 405
- Jerussi, T.P., see Hyde, J.F., **421**, 117
- Jiang, C., Wu, Z.-H. and Shen, E.
Antidromic mapping of descending axons of respiratory bulbospinal neurons in the nucleus tractus solitarius of the rabbit, **413**, 189
- Jimenez-Castellanos, J. and Graybiel, A.M.
Subdivisions of the primate substantia nigra pars compacta detected by acetylcholinesterase histochemistry, **437**, 349
- Jin, H., see Chen, Y.-F., **413**, 15
- Jobert, A., see Lamour, Y., **416**, 277
- Jobert, A., see Dutar, P., **418**, 98
- Jochim, A., see Wilcox, G.L., **405**, 84
- Joëls, M., Shinnick-Gallagher, P. and Gallagher, J.P.
Effect of serotonin and serotonin analogues on passive membrane properties of lateral septal neurons in vitro, **417**, 99
- Joëls, M., Van Veldhuizen, M., Urban, I.J.A. and De Kloet, E.R.
N-Acetyl-aspartylglutamate: binding sites and excitatory action in the dorsolateral septum of rats, **403**, 192
- Joh, T.H., see Aoki, C., **437**, 264
- Joh, T.H., see Blessing, W.W., **419**, 336
- Joh, T.H., see Hervé, D., **435**, 71
- Joh, T.H., see Milner, T.A., **411**, 28
- Joh, T.H., see Milner, T.A., **411**, 46
- Johansen, J., see Yang, J., **419**, 324
- Johansson, H., Sjölander, P., Sojka, P. and Wadell, I.
Fusimotor reflexes to antagonistic muscles simultaneously assessed by multi-afferent recordings from muscle spindle afferents, **435**, 337
- Johnson, A.K., see Bellin, S.I., **403**, 105
- Johnson, A.K., see Bellin, S.I., **416**, 75
- Johnson, A.K., see Wilkin, L.D., **423**, 369
- Johnson, B.R., see Harris-Warrick, R.M., **416**, 381
- Johnson, D.D., see Pedder, S.C.J., **424**, 139
- Johnson Jr., E.M., see Wallace, T.L., **411**, 351
- Johnson, G.V.W. and Jope, R.S.
Aluminum alters cyclic AMP and cyclic GMP levels but not presynaptic cholinergic markers in rat brain in vivo, **403**, 1
- Johnson, K.M., see Zukin, S.R., **416**, 84
- Johnston, P., see Shults, C.W., **426**, 290
- Jórárt, I., see Vecsernyés, M., **414**, 153
- Jórárt, J., see Vecsernyés, M., **414**, 153
- Jolin, T., see Armario, A., **401**, 200
- Jolkkonen, J., see Pitkänen, A., **416**, 180
- Jolkkonen, J., see Reinikainen, K.J., **402**, 103
- Jonakait, G.M., see Martínez, H.J., **412**, 295
- Jones, E.G., see Hunt, C.A., **426**, 257
- Jones, E.G., see Molinari, M., **426**, 270
- Jones, G.H., see Dooley, D.J., **420**, 152
- Jones, G.H., see Dunnett, S.B., **415**, 63
- Jones, H.C., see Keep, R.F., **413**, 45
- Jones, P.G., Rosser, S.J. and Bulloch, A.G.M.
Glutamate suppression of feeding and the underlying output of effector neurons in *Helisoma*, **437**, 56
- Jones, R.S.G. and Heinemann, U.H.
Differential effects of calcium entry blockers on pre- and postsynaptic influx of calcium in the rat hippocampus in vitro, **416**, 257
- Jones, S., see Koepke, J.P., **404**, 80
- Jones, S.L., see Janss, A.J., **400**, 40
- Jones, S.L., see Ness, T.J., **426**, 169
- Jones, T.A., see Beck, M.M., **406**, 93
- Jonsson, G., see Sundström, E., **405**, 26
- Jope, R.S., see Johnson, G.V.W., **403**, 1
- Jope, R.S., see Koenig, M.L., **424**, 169
- Jørgensen, O.S., Mogensen, J. and

- Divac, I.
The N-CAM D2-protein as marker for synaptic remodelling in the red nucleus, **405**, 39
- Jork, R., see De Graan, P.N.E., **404**, 345
- Joseph, J.A., see Henry, J.M., **418**, 334
- Joseph, S.A., see Zuniga, J.R., **420**, 57
- Joseph, S.A., see Zuniga, J.R., **420**, 66
- Jost, D., see Racké, K., **436**, 371
- Jourdan, F., see Royet, J.P., **417**, 1
- Jouvet, M., see Luppi, P.-H., **402**, 339
- Joy, R.M., see Albertson, T.E., **435**, 283
- Joyce, J.N., see Rhodes, K.J., **412**, 400
- Joyner, J.L., see Ault, B., **426**, 93
- Judkins, J.H., see Masters, B.A., **417**, 247
- Juel, V.C., see Vern, B.A., **415**, 188
- Juhász, M., Kobor, G., Lajtha, A. and Vadasz, C.
Autoradiographic distribution of binding sites of [³H]SKF 38393, a selective dopamine D₁ receptor agonist, in the mouse forebrain, **423**, 305
- Julien, C., see Barbeau, H., **437**, 83
- Juorio, A.V., see Sardar, A., **412**, 370
- Juorio, A.V., Walz, W. and Sloley, B.D.
Absence of decarboxylation of some aromatic-L-amino acids by cultured astrocytes, **426**, 183
- Jurna, I., see Wilcox, G.L., **405**, 84
- Justice Jr., J.B., see Church, W.H., **412**, 397
- Justice Jr., J.B., see Michael, A.C., **421**, 325
- Jyväsjarvi, E., see Pertovaara, A., **422**, 205
- K
- Kadono, Y., see Minabe, Y., **408**, 286
- Kagawa, Y., see Yamada, S., **410**, 212
- Kairiss, E.W., Abraham, W.C., Bilkey, D.K. and Goddard, G.V.
Field potential evidence for long-term potentiation of feed-forward inhibition in the rat dentate gyrus, **401**, 87
- Kajander, K.C. and Giesler Jr., G.J.
Effects of repeated noxious thermal stimuli on the responses of neurons in the lateral cervical nucleus of cats: evidence for an input from A-nociceptors to the spinocervicohthalamic pathway, **436**, 390
- Kajiwar, K., see Sugaya, E., **406**, 270
- Kajiwar, K., see Sugaya, E., **416**, 183
- Kalin, N.H., Shelton, S.E. and Barksdale, C.M.
monkeys: effects of diazepam and Ro 15-1788, **408**, 192
- Kalin, N.H., Shelton, S.E., Barksdale, C.M. and Brownfield, M.S.
A diurnal rhythm in cerebrospinal fluid corticotrophin-releasing hormone different from the rhythm of pituitary-adrenal activity, **426**, 385
- Kalinoski, D.L., Bruch, R.C. and Brand, J.G.
Differential interaction of lectins with chemosensory receptors, **418**, 34
- Kalinoski, D.L., see Brand, J.G., **416**, 119
- Kalivas, P.W. and Abhold, R.
Enkephalin release into the ventral tegmental area in response to stress: modulation of mesocorticolimbic dopamine, **414**, 339
- Kalivas, P.W., see Vezina, P., **417**, 51
- Kaltwasser, M.-T. and Crawley, J.N.
Oxytocin and cholecystokinin induce grooming behavior in the ventral tegmentum of the rat, **426**, 1
- Kamada, T., see Matsuyama, T., **418**, 325
- Kamada, T., see Wanaka, A., **435**, 91
- Kamata, K., Okuyama, S., Hashimoto, S., Kumura, M.-A., Aihara, H. and Kasuya, Y.
Atrophy of the striatum and motor disturbance induced by colchicine, **421**, 353
- Kametani, H., see Ando, S., **405**, 371
- Kameyama, M., see Hara, K., **410**, 371
- Kameyama, M., see Tomimoto, H., **425**, 248
- Kamisaki, Y., see Inagaki, N., **402**, 197
- Kamiya, H., see Itoh, K., **400**, 145
- Kamo, H., see Tomimoto, H., **425**, 248
- Kanagawa, Y., see Matsuyama, T., **418**, 325
- Kanaseki, T., see Kubota, T., **421**, 30
- Kanawati, I.S., see Yaksh, T.L., **406**, 207
- Kanda, K., see Washio, H., **416**, 69
- Kaneko, T., see Yamashita, H., **416**, 364
- Kaneko, T., Ono, H. and Fukuda, H.
Enhancement of recurrent inhibition of the spinal monosynaptic reflex by preceding stimulation of the medullary raphe in rats, **417**, 403
- Kaneko, T., see Okuya, S., **402**, 58
- Kanje, M., see Sjöberg, J., **415**, 270
- Kanje, M., see Edström, A., **401**, 34
- Kannan, H., see Yamashita, H., **405**, 348
- Kannan, H., Kasai, M., Osaka, T. and Yamashita, H.
Neurons in the paraventricular nucleus projecting to the median eminence: a study of their afferent connections from peripheral baroreceptors, and from the A₁-catecholaminergic area in the ventrolateral medulla, **409**, 358
- Kannan, H., see Yamashita, H., **416**, 364
- Kanno, T., see Harada, E., **414**, 173
- Kano, Y. and Starr, A.
Temporal relationship between single unit activity in superior olivary complex and scalp-derived auditory brainstem response in guinea pig, **419**, 262
- Kano, Y., see Shirao, T., **413**, 374
- Kanui, T.I.
Thermal inhibition of nociceptor-driven spinal cord neurones in the cat: a possible neuronal basis for thermal analgesia, **402**, 160
- Kanwal, J.S., Hidaka, I. and Caprio, J.
Taste responses to amino acids from facial nerve branches innervating oral and extra-oral taste buds in the channel catfish, *Ictalurus punctatus*, **406**, 105
- Kao, L.C., see Carvey, P.M., **409**, 193
- Kaplan, R., see Kent, S., **415**, 169
- Karasawa, N., see Yoshida, M., **410**, 169
- Karkowski, L.M., see Hewitt, J.K., **417**, 225
- Karlsson, B., see Davidsson, P., **412**, 254
- Karnovsky, M.J., see Rutten, M.J., **425**, 301
- Karpiak, S.E., see Ramirez, J.J., **414**, 85
- Kartje-Tillotson, G., O'Donoghue, D.L., Dauzvardis, M.F. and Castro, A.J.
Pyramidotomy abolishes the abnormal movements evoked by intracortical microstimulation in adult rats that sustained neonatal cortical lesions, **415**, 172
- Kasai, M., see Kannan, H., **409**, 358
- Kasai, M., see Yamashita, H., **416**, 364
- Kása, P., see Szerdahelyi, P., **422**, 287
- Kaše, Y., see Nakagawa, Y., **408**, 57
- Kaseda, Y., Ghetti, B., Low, W.C., Richter, J.A. and Simon, J.R.
Dopamine D₂ receptors increase in the dorsolateral striatum of weaver mutant mice, **422**, 178
- Kaseda, Y., see Low, W.C., **435**, 315
- Kashiwamata, S., see Semba, R., **401**, 9
- Kasian, M., see Zacharko, R.M., **426**, 164
- Kass, I.S., see Bendo, A.A., **403**, 136
- Kasti, M., see Magni, F., **424**, 379
- Kastin, A.J., see Zadina, J.E., **409**, 10
- Kasting, N.W., see Wilkinson, M.F., **415**, 275
- Kasuya, Y., see Kamata, K., **421**, 353
- Katada, T., see Terashima, T., **410**, 97
- Katada, T., see Terashima, T., **417**, 190
- Katada, T., see Terashima, T., **436**, 384
- Katafuchi, T., Puthuraya, K.P., Yoshimatsu, H. and Oomura, Y.
Responses of rat lateral hypothalamic neuron activity to vestibular nuclei stimulation, **400**, 62
- Kataoka, S., see Izumiyama, K., **416**, 175
- Kataoka, Y., Shibata, K., Yamashita, K. and Ueki, S.

- Differential mechanisms involved in the anticonflict action of benzodiazepines injected into the central amygdala and mammillary body, **416**, 243
- Katayama, S., Kito, S., Miyoshi, R. and Matsubayashi, H.
Effects of calcium antagonists on muscarinic receptor subtypes in the rat brain, **422**, 168
- Kato, H., see Kudo, Y., **407**, 168
- Kato, J., see Miyamoto, M., **419**, 19
- Kato, K., see Semba, R., **401**, 9
- Kato, M., see Aiko, Y., **408**, 47
- Kato, S., see Fukuchi, I., **400**, 53
- Kato, Y., see Murakami, Y., **407**, 405
- Katovich, M.J., Simpkins, J.W. and Barney, C.C.
 α -Adrenergic mediation of the tail skin temperature response to naloxone in morphine-dependent rats, **426**, 55
- Katsumaru, H., see Kawaguchi, Y., **416**, 369
- Katsumaru, H., see Kosaka, T., **419**, 119
- Katsumaru, H., see Murakami, F., **437**, 379
- Katsuta, S., see Ishihara, A., **435**, 355
- Katz, J., see Wu, W.-H., **401**, 407
- Kauer, J.S., Senseman, D.M. and Cohen, L.B.
Odor-elicited activity monitored simultaneously from 124 regions of the salamander olfactory bulb using a voltage-sensitive dye, **418**, 255
- Kavaliers, M., see Ossenkopp, K.-P., **418**, 356
- Kavaliers, M. and Innes, D.
Stress-induced opioid analgesia and activity in deer mice: sex and population differences, **425**, 49
- Kavaliers, M. and Wiebe, J.P.
Analgesic effects of the progesterone metabolite, 3 α -hydroxy-5 α -pregnan-20-one, and possible modes of action in mice, **415**, 393
- Kavaliers, M.
Calcium channel blockers inhibit the antagonistic effects of Phe-Met-Arg-Phe-amide (FMRFamide) on morphine- and stress-induced analgesia in mice, **415**, 380
- Kavaliers, M.
Evidence for opioid and non-opioid forms of stress-induced analgesia in the snail, *Cepaea nemoralis*, **410**, 111
- Kavaliers, M.
Stimulatory influences of calcium channel antagonists on stress-induced opioid analgesia and locomotor activity, **408**, 403
- Kawaguchi, Y. and Hama, K.
Fast-spiking non-pyramidal cells in the hippocampal CA₃ region, dentate gyrus and subiculum of rats, **425**, 351
- Kawaguchi, Y. and Hama, K.
Two subtypes of non-pyramidal cells in rat hippocampal formation identified by intracellular recording and HRP injection, **411**, 190
- Kawaguchi, Y., Katsumaru, H., Kosaka, T., Heizmann, C.W. and Hama, K.
Fast spiking cells in rat hippocampus (CA₁ region) contain the calcium-binding protein parvalbumin, **416**, 369
- Kawahara, A., see Hirata, T., **422**, 374
- Kawai, N., see Miwa, A., **416**, 162
- Kawai, Y., Emson, P.C., Hillyard, C.J., Girgis, S., MacIntyre, I., Oertel, W.H. and Tohyama, M.
Immunohistochemical evidence for the coexistence of calcitonin gene-related peptide and glutamate decarboxylase-like immunoreactivities in the Purkinje cells of the rat cerebellum, **409**, 371
- Kawai, Y., see Hamaji, M., **416**, 192
- Kawai, Y., Takagi, H., Kumoi, Y., Shiosaka, S. and Tohyama, M.
Nigrostriatal dopamine neurons receive substance P-ergic inputs in the substantia nigra: application of the immunoelectron microscopic mirror technique to fluorescent double-staining for transmitter-specific projections, **401**, 371
- Kawamoto, K. and Kawashima, S.
Regeneration of neurohypophyseal hormone-producing neurons in hypophysectomized immature rats, **422**, 106
- Kawamura, N., see Seto-Ohshima, A., **410**, 292
- Kawano, J.-I. and Aikawa, E.
Regional distribution of arylsulfatase C and estrone-sulfate sulfatase activities in rat brain and hypophysis, **409**, 391
- Kawasaki, T., see Shojaku, H., **416**, 100
- Kawasaki, Y., see Horie, H., **411**, 298
- Kawashima, S., see Kawamoto, K., **422**, 106
- Kawashima, Y., see Hamaji, M., **416**, 192
- Kayser, V. and Guilbaud, G.
Cross-tolerance between analgesic low doses of morphine and naloxone in arthritic rats, **405**, 123
- Kayser, V., Besson, J.M. and Guilbaud, G.
Paradoxical hyperalgesic effect of exceedingly low doses of systemic morphine in an animal model of persistent pain (Freund's adjuvant-induced arthritic rats), **414**, 155
- Kebabian, J.W., see Aiso, M., **408**, 281
- Kebabian, J.W., see Yamamoto, T., **407**, 398
- Keefe, D.L., Earnest, D.J., Nelson, D., Takahashi, J.S. and Turek, F.W.
A cholinergic antagonist, mecamlamine, blocks the phase-shifting effects of light on the circadian rhythm of locomotor activity in the golden hamster, **403**, 308
- Keen, P., see Robinson, J.P., **426**, 339
- Keenan, C.L. and Chu, N.-S.
Thermosensitivity of dorsal raphe neurons in vitro, **410**, 189
- Keep, R.F., Cawkwell, R.D. and Jones, H.C.
Choroid plexus structure and function in young rats on a high-potassium diet, **413**, 45
- Keeting, P.E., see Lysz, T.W., **408**, 6
- Keeton, T.K., see Hubbard, J.W., **421**, 226
- Kehne, J.H., Cassella, J.V., Aghajanian, G.K., Tallman, J.F. and Davis, M.
Pertussis toxin or 8-bromo-cAMP block inhibition of the acoustic startle response by the α_2 -adrenergic agonist ST-91, **406**, 87
- Kehr, A.D., see Mufson, E.J., **417**, 385
- Keil, L.C., see Dundore, R.L., **401**, 122
- Kellar, K.J., Whitehouse, P.J., Martino-Barrows, A.M., Marcus, K. and Price, D.L.
Muscarinic and nicotinic cholinergic binding sites in Alzheimer's disease cerebral cortex, **436**, 62
- Kellaway, L., see Douglas, R., **418**, 111
- Keller, F., Rinvall, K. and Waser, P.G.
Choline and acetylcholine metabolism in slice cultures of the newborn rat septum, **405**, 305
- Keller, M., see Seregi, A., **404**, 113
- Kelley, M., see O'Malley, C.A., **403**, 389
- Kelly, J.S., see Brooks, P.A., **408**, 295
- Kelly, J.S., see Dinan, T.G., **407**, 159
- Kelly, P.A.T. and McCulloch, J.
Cerebral glucose utilization following striatal lesions: the effects of the GABA agonist, muscimol, and the dopaminergic agonist, apomorphine, **425**, 290
- Kelly, R.S. and Wightman, R.M.
Detection of dopamine overflow and diffusion with voltammetry in slices of rat brain, **423**, 79
- Kellényi, L., see Buzsáki, G., **400**, 321
- Kemp, D.E., see Weiss, S., **414**, 390
- Kendig, J.J. and Lo, M.-V.C.
Cholinergic regulation of impulse frequency in peripheral nerve, **435**, 24
- Kenins, P., see Gregory, J.E., **404**, 375
- Kennaway, D.J., see Firth, B.T., **404**, 313
- Kennedy, P.R.
Parametric relationships of individual digit movements to neuronal discharges in primate magnocellular red nucleus, **417**, 185
- Kenny, S.L., see Ariano, M.A., **415**, 115
- Kent, S., Kaplan, R. and Satinoff, E.

- Decreases in REM sleep after phentolamine depend on the ambient temperature, **415**, 169
- Kerkut, G.A., see Bagust, J., **411**, 397
- Kerr, D.I.B., Ong, J., Prager, R.H., Gynther, B.D. and Curtis, D.R. Phaclofen: a peripheral and central baclofen antagonist, **405**, 150
- Kerr, D.I.B., see Pike, G.K., **413**, 388
- Kerr, D.S., see Applegate, M.D., **401**, 401
- Kerrin, J.P., see MacVicar, B.A., **406**, 130
- Kertesz, E., Somoza, G.M., D'Eramo, J.L. and Libertun, C. Further evidence for endogenous hypothalamic serotonergic neurons involved in the cimetidine-induced prolactin release in the rat, **413**, 10
- Kesslak, J.P., see Bridges, R.J., **415**, 163
- Kettenmann, H., Backus, K.H. and Schachner, M. γ -Aminobutyric acid opens Cl-channels in cultured astrocytes, **404**, 1
- Khan, S.U., see Ribak, C.E., **418**, 146
- Kharouby, M., see Oades, R.D., **406**, 136
- Khayutin, V.M., see Lukoshkova, E.V., **412**, 357
- Khorram, O., see Aguila, M.C., **417**, 127
- Kicliter, E., see Lugo-Garcia, N., **426**, 131
- Kiefer, S., see Huston, J.P., **436**, 1
- Kigoshi, S., see Yamanaka, K., **409**, 395
- Kihara, M., see Kubo, T., **413**, 379
- Kilduff, T.S., see Bowersox, S.S., **402**, 44
- Kilfoil, T., see Ramirez, J.J., **414**, 85
- Kilts, C.D. and Anderson, C.M. Mesoamygdaloid dopamine neurons: differential rates of dopamine turnover in discrete amygdaloid nuclei of the rat brain, **416**, 402
- Kim, H.S., see Iyengar, S., **435**, 220
- Kim, J., Shin, H.K. and Chung, J.M. Many ventral root afferent fibers in the cat are third branches of dorsal root ganglion cells, **417**, 304
- Kim, J.H., see Wang, J.-J., **410**, 323
- Kim, J.P., Koh, J.-Y. and Choi, D.W. L-Homocysteate is a potent neurotoxin on cultured cortical neurons, **437**, 103
- Kim, P., Yaksh, T.L., Burnett, P.C., Blum, M.R. and Sundt Jr., T.M. Cerebrospinal fluid levels of uric acid in dogs and the effect of allopurinol, **402**, 87
- Kim, S.U., see Horie, H., **420**, 144
- Kimberly, C.L., see Byers, M.R., **419**, 311
- Kimelberg, H.K., see Bowman, C.L., **423**, 403
- Kimura, H., see Tomimoto, H., **425**, 248
- Kimura, N., see Ando, S., **405**, 371
- Kimura, F., Mitsugi, N., Arita, J., Akema, T. and Yoshida, K. Effects of preoptic injections of gastrin, cholecystokinin, secretin, vasoactive intestinal peptide and PHI on the secretion of luteinizing hormone and prolactin in ovariectomized estrogen-primed rats, **410**, 315
- Kimura, H., see Hara, K., **410**, 371
- Kimura, K., see Matsuyama, T., **418**, 325
- King, P.H., Shin, C., Mansbach, H.H., Chen, L.S. and McNamara, J.O. Microinjection of a benzodiazepine into substantia nigra elevates kindled seizure threshold, **423**, 261
- Kinney, R.C., see Long, J.B., **436**, 374
- Kinnman, E. Collateral sprouting of sensory axons in the hairy skin of the trunk: a morphological study in adult rats, **414**, 385
- Kirkwood, P.A., Sears, T.A., Stagg, D. and Westgaard, R.H. Intercoastal muscles and purring in the cat: the influence of afferent inputs, **405**, 187
- Kirpitchenkova, E., see Weidner, C., **419**, 357
- Kirsteins, L., see Emanuele, N.V., **407**, 223
- Kirsteins, L., see Emanuele, N.V., **421**, 255
- Kishi, M., see Kuriyama, K., **416**, 7
- Kishii, K., see Onozuka, M., **420**, 259
- Kiss, A., Palkovits, M., Antoni, F.A., Eskay, R.L. and Skirboll, L.R. Neurotensin in the rat median eminence: the possible sources of neurotensin-like fibers and varicosities in the external layer, **416**, 129
- Kiss, J.Z., see Van Eekelen, J.A.M., **436**, 120
- Kita, H., see Nakanishi, H., **437**, 35
- Kita, H., see Nakanishi, H., **437**, 45
- Kitahama, K., see Geffard, M., **426**, 191
- Kitai, S.T., see Chang, H.T., **426**, 197
- Kitai, S.T., see Nakanishi, H., **437**, 35
- Kitai, S.T., see Nakanishi, H., **437**, 45
- Kitajima, S., see Seto-Ohshima, A., **410**, 292
- Kitamura, K., see Aiko, Y., **408**, 47
- Kitamura, T., Nakanishi, K., Watanabe, S., Endo, Y. and Fujita, S. GFA-protein gene expression on the astroglia in cow and rat brains, **423**, 189
- Kito, S., see Katayama, S., **422**, 168
- Kito, S., see Kubota, Y., **406**, 147
- Kito, S., see Kubota, Y., **413**, 179
- Kito, S., see Kubota, Y., **415**, 385
- Kito, S., see Miyoshi, R., **420**, 302
- Kito, S., see Shimada, S., **425**, 256
- Kitt, C.A., Mitchell, S.J., DeLong, M.R., Wainer, B.H. and Price, D.L. Fiber pathways of basal forebrain cholinergic neurons in monkeys, **406**, 192
- Kiyama, H., see Ando-Yamamoto, M., **410**, 269
- Kiyama, H., see Fujii, S., **401**, 1
- Kiyama, H., see Inagaki, N., **402**, 197
- Klawans, H.L., see Carvey, P.M., **409**, 193
- Klee, M.R., see Preisendorfer, U., **435**, 213
- Klein, E., Patel, J., McDevitt, R. and Zohar, J. Chronic lithium treatment increases the phosphorylation of a 64-kDa protein in rat brains, **407**, 312
- Kleinberger, N., see Minc-Golomb, D., **402**, 255
- Kleinhaus, A.L., see Yang, J., **419**, 324
- Klemfuss, H., Young, S.J. and Groves, P.M. Do antidromic latency jumps indicate axonal branching in nigrostriatal and hypothalamo-neurohypophysial neurons?, **409**, 197
- Klip, A., see Jakubovic, D.E., **435**, 138
- Klockgether, T., see Turski, L., **424**, 37
- Klockgether, T., see Wüllner, U., **422**, 129
- Knauer, D.J., see Rosenblatt, D.E., **415**, 40
- Knigge, K.M., see Zuniga, J.R., **420**, 57
- Knigge, K.M., see Zuniga, J.R., **420**, 66
- Knoops, B. and Van den Bosch de Aguilar, P. A new in vivo model to study the influence of the microenvironment in the regeneration of the central nervous system, **425**, 191
- Knöpfel, T. Evidence for *N*-methyl-D-aspartic acid receptor-mediated modulation of the commissural input to central vestibular neurons of the frog, **426**, 212
- Knox, R., see Dickenson, A.H., **413**, 36
- Knox, R.J. and Dickenson, A.H. Effects of selective and non-selective κ -opioid receptor agonists on cutaneous C-fibre-evoked responses of rat dorsal horn neurones, **415**, 21
- Knuepfer, M.M. and Schramm, L.P. The conduction velocities and spinal projections of single renal afferent fibers in the rat, **435**, 167
- Kobler, J.B., Vacher, S.R. and Guinan Jr., J.J. The recruitment order of stapedius motoneurons in the acoustic reflex varies with sound laterality, **425**, 372
- Kobor, G., see Juhász, M., **423**, 305
- Kochhar, A., see Zivin, J.A., **435**, 305
- Kochman, K., see Henry, J.M., **418**, 334
- Kocsis, B., see Lukoshkova, E.V., **412**, 357
- Koehn, S., see Yang, J., **419**, 324
- Koenig, E., see Edmonds, B., **406**, 288
- Koenig, M.L., Jope, R.S., Baker, H.J. and Lally, K.M. Reduced Ca^{2+} flux in synaptosomes

- from cats with G_{M1} gangliosidosis, **424**, 169
- Koepke, J.P., Jones, S. and DiBona, G.F.
 α_2 -Adrenoceptors in amygdala control renal sympathetic nerve activity and renal function in conscious spontaneously hypertensive rats, **404**, 80
- Koestner, A., see Kumar, K., **421**, 309
- Kogo, N., see Arita, H., **401**, 258
- Kogure, K., see Abe, K., **423**, 221
- Kogure, K., see Onodera, H., **415**, 309
- Kogure, K., see Izumiyama, K., **416**, 175
- Koh, J.-Y., see Kim, J.P., **437**, 103
- Kohara, H., see Shioda, S., **402**, 355
- Koizumi, M., see Shimosegawa, T., **406**, 341
- Kojima, N., see Obata, K., **404**, 169
- Koketsu, K., see Akasu, T., **405**, 375
- Kokoris, G., see Perlow, M.J., **415**, 158
- Kokoris, G.J., see Gibson, M.J., **424**, 133
- Koller, K.J., see Blakely, R.D., **402**, 373
- Kolodny, J.M., see Riskind, P.N., **420**, 194
- Komatsu, Y., see Hamasaki, T., **422**, 172
- Komatsubara, J., see Sugaya, E., **416**, 183
- Komatsubara, J., see Sugaya, E., **406**, 270
- Komisaruk, B.R., see Peters, L.C., **408**, 199
- Komulainen, H. and Bondy, S.C.
 Transient elevation of intrasynaptosomal free calcium by putrescine, **401**, 50
- Kondo, A., Inoue, T., Nagara, H., Tateishi, J. and Fukui, M.
 Neurotoxicity of adriamycin passed through the transiently disrupted blood-brain barrier by mannitol in the rat brain, **412**, 73
- Kondo, A., Nakano, T. and Suzuki, K.
 Blood-brain barrier permeability to horseradish peroxidase in twitcher and cuprizone-intoxicated mice, **425**, 186
- Kondo, A., see Inoue, T., **414**, 309
- Kondo, H., see Uemura, T., **406**, 73
- Kondo, K., see Inagaki, C., **419**, 375
- Konkol, R.J., see Applegate, C.D., **407**, 212
- Konno, H., see Iwasaki, Y., **406**, 99
- Konopacki, J., Bland, B.H. and Roth, S.H.
 Phase shifting of CA₁ and dentate EEG theta rhythms in hippocampal formation slices, **417**, 399
- Konopacki, J., Bland, B.H., MacIver, M.B. and Roth, S.H.
 Cholinergic theta rhythm in transected hippocampal slices: independent CA₁ and dentate generators, **436**, 217
- Konopacki, J., MacIver, M.B., Bland, B.H. and Roth, S.H.
 Carbachol-induced EEG 'theta' activity in hippocampal brain slices, **405**, 196
- Koo, E.H., see LaVail, J.H., **404**, 127
- Koob, G.F., see Swerdlow, N.R., **412**, 233
- Kopp, N., see Sakamoto, N., **403**, 31
- Kordower, J.H., Nottter, M.F.D. and Gash, D.M.
 Neuroblastoma cells in neural transplants: a neuroanatomical and behavioral analysis, **417**, 85
- Korf, J., see Loopuijt, L.D., **405**, 405
- Korner, P.I., Badoer, E. and Head, G.A.
 Cardiovascular role of the major noradrenergic cell groups in the rabbit: analysis based on 6-hydroxydopamine-induced transmitter release, **435**, 258
- Korner, P.I., see Head, G.A., **412**, 18
- Korte, A., see Erwin, V.G., **400**, 80
- Kosaka, T., see Kosaka, K., **403**, 355
- Kosaka, K., Hama, K., Nagatsu, I., Wu, J.-Y., Ottersen, O.P., Storm-Mathisen, J. and Kosaka, T.
 Postnatal development of neurons containing both catecholaminergic and GABAergic traits in the rat main olfactory bulb, **403**, 355
- Kosaka, K., see Kosaka, T., **411**, 373
- Kosaka, K., see Kosaka, T., **413**, 197
- Kosaka, T., Heizmann, C.W., Tateishi, K., Hamaoka, Y. and Hama, K.
 An aspect of the organizational principle of the γ -aminobutyric acid-ergic system in the cerebral cortex, **409**, 403
- Kosaka, T., Katsumaru, H., Hama, K., Wu, J.-Y. and Heizmann, C.W.
 GABAergic neurons containing the Ca²⁺-binding protein parvalbumin in the rat hippocampus and dentate gyrus, **419**, 119
- Kosaka, T., Kosaka, K., Hama, K., Wu, J.-Y. and Nagatsu, I.
 Differential effect of functional olfactory deprivation on the GABAergic and catecholaminergic traits in the rat main olfactory bulb, **413**, 197
- Kosaka, T., Kosaka, K., Heizmann, C.W., Nagatsu, I., Wu, J.-Y., Yanaihara, N. and Hama, K.
 An aspect of the organization of the GABAergic system in the rat main olfactory bulb: laminar distribution of immunohistochemically defined subpopulations of GABAergic neurons, **411**, 373
- Kosaka, T., see Kawaguchi, Y., **416**, 369
- Koshiya, N., see Arita, H., **401**, 258
- Koshiyama, H., see Murakami, Y., **407**, 405
- Kosik, K.S., see Fischer, I., **436**, 39
- Kosik, K.S., see Galloway, P.G., **403**, 337
- Kosinski, R.J., Neafsey, E.J. and Castro, A.J.
 Remodeling of dorsal column nuclear efferents to the basilar pontine gray after cortical ablations in newborn rats, **406**, 302
- Kosma, V.-M., see Reinikainen, K.J., **402**, 103
- Kosofsky, B.E., see Fritschy, J.-M., **437**, 176
- Kössl, M., see Caspary, D.M., **417**, 273
- Koulu, M., see Bitar, M.S., **409**, 236
- Kovács, G.L., see Laczi, F., **403**, 155
- Kow, L.-M. and Pfaff, D.W.
 Responses of ventromedial hypothalamic neurons in vitro to norepinephrine: dependence on dose and receptor type, **413**, 220
- Kowall, N.W., see Ferrante, R.J., **411**, 162
- Kowall, N.W., see Ferrante, R.J., **416**, 141
- Kowalski, M.M., Cassidy, M., Namboodiri, M.A.A. and Neale, J.H.
 Cellular localization of N-acetylaspartylglutamate in amphibian retina and spinal sensory ganglia, **406**, 397
- Koyano, H., see Sato, M., **400**, 101
- Koyano, H., see Sato, M., **410**, 101
- Kraig, R.P. and Wagner, R.J.
 Acid-induced changes of brain protein buffering, **410**, 390
- Krall, S., see Paden, C.M., **418**, 349
- Krause, G., see Kumar, K., **421**, 309
- Krayanek, S.R., see Perry, G.W., **423**, 1
- Kreider, B., see Yasuda, T., **436**, 113
- Kreiger, D.T., see Perlow, M.J., **415**, 158
- Kreisman, N.R., Hodin, R.A., Rosenthal, M. and Sick, T.J.
 Role of pulmonary edema in phasic changes of cerebral oxygenation during serial seizures, **417**, 335
- Krieger, A.J., see Punnen, S., **422**, 336
- Krishtal, O.A., Osipchuk, Y.V., Shelest, T.N. and Smirnov, S.V.
 Rapid extracellular pH transients related to synaptic transmission in rat hippocampal slices, **436**, 352
- Kristal, M.B., see Peters, L.C., **408**, 199
- Křivánek, J., see Gorelova, N.A., **404**, 379
- Krueger, J.M., Davenne, D., Walter, J., Shoham, S., Kubillus, S.L., Rosenthal, R.S., Martin, S.A. and Biemann, K.
 Bacterial peptidoglycans as modulators of sleep. II. Effects of muramyl peptides on the structure of rabbit sleep, **403**, 258
- Krueger, J.M., Rosenthal, R.S., Martin, S.A., Walter, J., Davenne, D., Shoham, S., Kubillus, S.L. and Biemann, K.
 Bacterial peptidoglycans as modulators of sleep. I. Anhydro forms of muramyl peptides enhance somnogenic potency, **403**, 249
- Krueger, J.M., see Shoham, S., **419**, 223

- Krug, M., see Pohle, W., **410**, 245
- Kruger, L., see Mantyh, C.R., **412**, 329
- Kruisbrink, J., Mirmiran, M., Van der Woude, T.P. and Boer, G.J. Effects of enhanced cerebrospinal fluid levels of vasopressin, vasopressin antagonist or vasoactive intestinal polypeptide on circadian sleep-wake rhythm in the rat, **419**, 76
- Kruk, M.R., see Lammers, J.H.C.M., **418**, 1
- Kruk, M.R., see Mos, J., **404**, 263
- Krukoff, T.L. Neuropeptide Y-like immunoreactivity in cat spinal cord with special reference to autonomic areas, **415**, 300
- Kubillus, S.L., see Krueger, J.M., **403**, 249
- Kubillus, S.L., see Krueger, J.M., **403**, 258
- Kubo, T. and Kihara, M. Blood pressure modulation by substance P in the rat nucleus tractus solitarius, **413**, 379
- Kubos, K.L., Moran, T.H. and Robinson, R.G. Differential and asymmetrical behavioral effects of electrolytic or 6-hydroxydopamine lesions in the nucleus accumbens, **401**, 147
- Kubota, I., see Hirata, T., **422**, 374
- Kubota, T., Morimoto, M., Kanaseki, T. and Inomata, H. Projection from the pretectal nuclei to the dorsal lateral geniculate nucleus in the cat: a wheat germ agglutinin-horseradish peroxidase study, **421**, 30
- Kubota, Y., Inagaki, S., Kito, S. and Wu, J.-Y. Dopaminergic axons directly make synapses with GABAergic neurons in the rat neostriatum, **406**, 147
- Kubota, Y., Inagaki, S., Shimada, S., Kito, S., Eckenstein, F. and Tohyama, M. Neostriatal cholinergic neurons receive direct synaptic inputs from dopaminergic axons, **413**, 179
- Kubota, Y., Inagaki, S., Shimada, S., Kito, S., Zaidi, M., Girgis, S.I., MacIntyre, I. and Tohyama, M. Transient appearance of calcitonin gene-related peptide-like immunoreactive fibers in the developing cerebellum of the rat, **415**, 385
- Kubota, Y., see Shimada, S., **425**, 256
- Kucera, J., see Walro, J.M., **425**, 311
- Kudo, Y., Ito, K., Miyakawa, H., Izumi, Y., Ogura, A. and Kato, H. Cytoplasmic calcium elevation in hippocampal granule cell induced by perforant path stimulation and L-glutamate application, **407**, 168
- Kuhr, W.G., Wightman, R.M. and Rebec, G.V. Dopaminergic neurons: simultaneous measurements of dopamine release and single-unit activity during stimulation of the medial forebrain bundle, **418**, 122
- Kula, N.S., see Campbell, A., **403**, 393
- Kumamoto, E. and Shinnick-Gallagher, P. Postganglionic stimulation activates synaptic potentials in cat bladder parasympathetic neurons, **435**, 403
- Kumar, K., White, B., Krause, G., Garritano, A.M. and Koestner, A. Cerebral endothelial microvilli following global brain ischemia in dogs, **421**, 309
- Kumoi, K., Saito, N. and Tanaka, C. Immunohistochemical localization of γ -aminobutyric acid- and aspartate-containing neurons in the guinea pig vestibular nuclei, **416**, 22
- Kumoi, Y., see Kawai, Y., **401**, 371
- Kumura, M.-A., see Kamata, K., **421**, 353
- Kung, M.-P. and Roth, J.A. Cellular localization of soluble and membrane-bound forms of arylsulfatase in rat brain, **419**, 141
- Kunz, B., see Spatz, W.B., **403**, 158
- Kuo, J.S., Wang, M.R., Liu, R.H., Yu, C.Y., Chiang, B.N. and Chai, C.Y. Reduction of common carotid resistance upon stimulation of an area dorsal to the facial nucleus of cats, **417**, 181
- Kurachi, M., see Minabe, Y., **408**, 286
- Kurihara, M., Saavedra, J.M. and Shigematsu, K. Localization and characterization of atrial natriuretic peptide binding sites in discrete areas of rat brain and pituitary gland by quantitative autoradiography, **408**, 31
- Kurihara, M., see Castrén, E., **422**, 347
- Kurihara, M., see Plunkett, L.M., **405**, 205
- Kuriyama, K., Tomono, S., Kishi, M., Mukainaka, T. and Ohkuma, S. Development of γ -aminobutyric acid (GABA)ergic neurons in cerebral cortical neurons in primary culture, **416**, 7
- Kuroda, Y., see Yoshii, M., **424**, 119
- Kuschinsky, W., see Grünwald, F., **400**, 232
- Kushinsky, R., see Haan, E.A., **426**, 19
- Kushner, M.J., Schwartz, R., Alavi, A., Dann, R., Rosen, M., Silver, F. and Reivich, M. Cerebral glucose consumption following verbal auditory stimulation, **409**, 79
- Kusuda, K., see Sadoshima, S., **413**, 297
- Kusumi, M., see Inagaki, C., **419**, 375
- Kuwayama, Y., Terenghi, G., Polak, J.M., Trojanowski, J.Q. and Stone, R.A. A quantitative correlation of substance P-, calcitonin gene-related peptide- and cholecystokinin-like immunoreactivity with retrogradely labeled trigeminal ganglion cells innervating the eye, **405**, 220
- Kuyatt, B., see Cadet, J.L., **437**, 383
- Kuypers, H.G.J.M., see Ugolini, G., **422**, 242
- Kvetňanský, R., see Fatranská, M., **424**, 109
- Kwan, H.C., Murphy, J.T. and Wong, Y.C. Interaction between neurons in precentral cortical zones controlling different joints, **400**, 259

L

- LaBella, F.S., see Nukina, I., **401**, 30
- Labarca, R., see Caspers, M.L., **409**, 335
- Labarca, R., see Schwartz, R.D., **411**, 151
- Labbe, R., see Mufson, E.J., **401**, 162
- Labouesse, J., see Voisin, P.J., **404**, 65
- Lachapelle, F., see Baulac, M., **420**, 39
- Lacquaniti, F. and Maioli, C. Anticipatory and reflex coactivation of antagonist muscles in catching, **406**, 373
- Laczi, F., see Vecsernyés, M., **414**, 153
- Laczi, F., Vecsernyés, M., Kovács, G.L., Szabó, G., Janáky, T., Telegdy, G. and László, F.A. Effects of β -endorphin₂₋₉ on arginine-8-vasopressin and oxytocin levels in hypothalamic and limbic brain regions, **403**, 155
- Lad, R.P., Simons, C., Gierschik, P., Milligan, G., Woodard, C., Griffo, M., Goldsmith, P., Ornberg, R., Gerfen, C.R., and Spiegel, A. Differential distribution of signal-transducing G-proteins in retina, **423**, 237
- Laduron, P.M., see Schotte, A., **408**, 326
- Laing, D.G., see Bell, G.A., **426**, 8
- Laing, D.G., see Slotnick, B.M., **417**, 343
- Lajtha, A., see Adam-Vizi, V., **410**, 257
- Lajtha, A., see Lapin, E.P., **407**, 351
- Lajtha, A., see Juhász, M., **423**, 305
- Lakher, M. and Wurtman, R.J. In vivo synthesis of phosphatidylcholine in rat brain via the phospholipid methylation pathway, **419**, 131
- Lally, K.M., see Koenig, M.L., **424**, 169
- Lalonde, G.T., see Zacharko, R.M., **426**, 164
- Lalonde, R., Manseau, M. and Botez, M.I.

- Spontaneous alternation and habituation in Purkinje cell degeneration mutant mice, **411**, 187
- Lam, D.M.-K., see Oyster, C.W., **425**, 25
- Lam, D.M.K., see Watt, C.B., **408**, 258
- Lamm, M.C.L., see Russell, V.A., **410**, 78
- Lammers, J.H.C.M., Meelis, W., Kruk, M.R. and Van der Poel, A.M.
Hypothalamic substrates for brain stimulation-induced grooming, digging and circling in the rat, **418**, 1
- Lammers, J.H.C.M., see Mos, J., **404**, 263
- LaMotte, R.H., see Simone, D.A., **418**, 201
- Lamour, Y., see Dutar, P., **418**, 98
- Lamour, Y., Dutar, P. and Jobert, A.
Septo-hippocampal neurons: altered properties in the aged rat, **416**, 277
- Land, P.W. and Akhtar, N.D.
Chronic sensory deprivation affects cytochrome oxidase staining and glutamic acid decarboxylase immunoreactivity in adult rat ventrobasal thalamus, **425**, 178
- Landas, S.K., see Bellin, S.I., **416**, 75
- Landfield, P.W., see Applegate, M.D., **401**, 401
- Landfield, P.W., see Pitler, T.A., **410**, 147
- Lane, R.F. and Blaha, C.D.
Acute thioridazine stimulates mesolimbic but not nigrostriatal dopamine release: demonstration by in vivo electrochemistry, **408**, 317
- Lang, W., see Henke, H., **410**, 404
- Lange, A.B., see Orchard, I., **413**, 251
- Lange, D.G., see Roerig, S.C., **400**, 278
- Langhofer, L., see Elidan, J., **423**, 385
- Langlais, P.J., Mair, R.G., Anderson, C.D. and McEntee, W.J.
Monoamines and metabolites in cortex and subcortical structures: normal regional distribution and the effects of thiamine deficiency in the rat, **421**, 140
- Langner, G., see Hose, B., **422**, 367
- Langston, E., see Ricaurte, G.A., **403**, 43
- Langston, J.W., see Ricaurte, G.A., **403**, 43
- Lapin, E.P., Maker, H.S., Sershen, H., Hurd, Y. and Lajtha, A.
Dopamine-like action of nicotine: lack of tolerance and reverse tolerance, **407**, 351
- Larocca, J.N., Cervone, A. and Ledeen, R.W.
Stimulation of phosphoinositide hydrolysis in myelin by muscarinic agonist and potassium, **436**, 357
- Larsen, P.R., see Riskind, P.N., **420**, 194
- Lasoń, W., Przewłocka, B. and Przewłocki, R.
Single and repeated electroconvulsive shock differentially affects the prodynorphin and pro-opiomelanocortin system in the rat, **403**, 301
- Lasoń, W., see Przewłocki, R., **413**, 213
- Lassonde, M., see Ward, R., **424**, 84
- László, F.A., see Laczi, F., **403**, 155
- László, F.A., see Vecsernyés, M., **414**, 153
- Lau, C., see Levitt, P., **418**, 174
- Laudon, M. and Zisapel, N.
Impact of circulating estradiol on melatonin binding sites in discrete areas of the female rat brain, **402**, 146
- Laurent, S., see Brisac, A.-M., **435**, 160
- Lauritzen, M., see Okada, Y.C., **412**, 151
- Lauritzen, M., see Wahl, M., **411**, 72
- Lautens, L.L. and Ruoho, A.E.
Photoaffinity labeling of the β -adrenergic receptor in synaptic membranes of rat cerebral cortex and cerebellum, **426**, 401
- Lauterborn, J., see Gall, C., **403**, 403
- LaVail, J.H., Koo, E.H. and Dekker, N.P.
Motoneuron loss in the abducens nucleus of wobbler mice, **404**, 127
- Lavie, V., Harel, A., Doron, A., Solomon, A., Lobel, D., Belkin, M., Ben-Basat, S., Sharma, S. and Schwartz, M.
Morphological response of injured adult rabbit optic nerve to implants containing media conditioned by growing optic nerves, **419**, 166
- Lavoie, P.-A., see Mekhail-Ishak, K., **426**, 62
- Lawing, W.L., Millhorn, D.E., Bayliss, D.A., Dean, J.B. and Trzebski, A.
Excitatory and inhibitory effects on respiration of L-glutamate microinjected superficially into the ventral aspects of the medulla oblongata in cat, **435**, 322
- Lawrence, A.M., see Emanuele, N.V., **407**, 223
- Lawrence, A.M., see Emanuele, N.V., **421**, 255
- Lawson, D., see Neville, H.J., **405**, 253
- Lawson, D., see Neville, H.J., **405**, 268
- Lawson, D., see Neville, H.J., **405**, 284
- Lazdunski, M., see Bidard, J.-N., **418**, 235
- Lazdunski, M., see Lombet, A., **417**, 327
- Lazdunski, M., see Mourre, C., **417**, 21
- Lázár, G., see Merchenthaler, I., **416**, 219
- Le Bars, D., Bourgoin, S., Clot, A.M., Hamon, M. and Cesselin, F.
Noxious mechanical stimuli increase the release of Met-enkephalin-like material heterosegmentally in the rat spinal cord, **402**, 188
- Le Bars, D., Bourgoin, S., Villanueva, L., Clot, A.M., Hamon, M. and Cesselin, F.
Involvement of the dorsolateral funiculi in the spinal release of Met-enkephalin-like material triggered by heterosegmental noxious mechanical stimuli, **412**, 190
- Le Moal, M., see Choulli, K., **407**, 376
- Le Moal, M., see Oades, R.D., **406**, 136
- Le Moal, M., see Onténiente, B., **421**, 391
- Le Roith, D., see Masters, B.A., **417**, 247
- Leake, J., see MacMillan, V., **420**, 268
- Ledeen, R.W., see Larocca, J.N., **436**, 357
- Lederis, K., see Sakanaka, M., **414**, 68
- LeDoux, J.E., see Iwata, J., **418**, 183
- Lee, K., see Brodie, M.S., **415**, 323
- Lee, N.M., see Abood, M.E., **417**, 70
- Lee, R.G., see Hayashi, R., **403**, 341
- Lee, R.J., Hong, J.-S., McGinty, J.F. and Lomax, P.
Increased enkephalin and dynorphin immunoreactivity in the hippocampus of seizure sensitive Mongolian gerbils, **401**, 353
- Lee, W.-L., Anwyl, R. and Rowan, M.
Caffeine inhibits post-tetanic potentiation but does not alter long-term potentiation in the rat hippocampal slice, **426**, 250
- Lee, Y., Hayashi, N., Hillyard, C.J., Girgis, S.I., MacIntyre, I., Emson, P.C. and Tohyama, M.
Calcitonin gene-related peptide-like immunoreactive sensory fibers form synaptic contact with sympathetic neurons in the rat celiac ganglion, **407**, 149
- Leedy, M.G., Beattie, M.S. and Bresnahan, J.C.
Testosterone-induced plasticity of synaptic inputs to adult mammalian motoneurons, **424**, 386
- Lees, G., Beadle, D.J., Neumann, R. and Benson, J.A.
Responses to GABA by isolated insect neuronal somata: pharmacology and modulation by a benzodiazepine and a barbiturate, **401**, 267
- Lefebvre, P.P., Rogister, B., Delree, P., Leprince, P., Selak, I. and Moonen, G.
Potassium-induced release of neurotoxic activity by astrocytes, **413**, 120
- Leffler, C.W., see Busija, D.W., **403**, 243
- Legrand, J.C., see Taquet, H., **411**, 178
- Lehman, M.N., see Silverman, A.-J., **402**, 346
- Lehmann, A.
Evidence for a direct action of N-methylaspartate on non-neuronal cells, **411**, 95
- Leichnetz, G.R., Gonzalo-Ruiz, A., De Salles, A.A.F. and Hayes, R.L.
The frontal eye field and prefrontal cortex project to the paramedian pontine reticular formation in the cat, **416**, 195

- Leichnetz, G.R., Gonzalo-Ruiz, A., De Salles, A.A.F. and Hayes, R.L. The origin of brainstem afferents of the paramedian pontine reticular formation in the cat, **422**, 389
- Leiva, J., see Motles, E., **405**, 165
- Lemercier, G., see Gourmelon, P., **411**, 391
- L'Empereur, K.M., see Birchem, R., **421**, 173
- Lenox, R.H., see Weiss, S., **414**, 390
- Lenz, H.J. and Brown, M.R. Central nervous system actions of β -endorphin on gastric acid secretion, **413**, 1
- Lenzi, P., Cianci, T., Guidalotti, P.L., Leonardi, G.S. and Franzini, C. Brain circulation during sleep and its relation to extracerebral hemodynamics, **415**, 14
- Lénárd, L., see Nishino, H., **405**, 56
- Leon, M., see Wilson, D.A., **417**, 175
- Leonard, B.J., McNaughton, B.L. and Barnes, C.A. Suppression of hippocampal synaptic plasticity during slow-wave sleep, **425**, 174
- Leonard, C.M., see Wirsig, C.R., **417**, 293
- Leonardi, G.S., see Lenzi, P., **415**, 14
- Lepore, F., see Guillemot, J.-P., **402**, 293
- Leprince, P., see Lefebvre, P.P., **413**, 120
- Lerma, J., see Herreras, O., **413**, 75
- LeRoith, D., see Waldbillig, R.J., **409**, 215
- Leroux, P., see Jégou, S., **413**, 259
- Leslie, C.A. and Bennett Jr., J.P. Striatal D₁- and D₂-dopamine receptor sites are separately detectable in vivo, **415**, 90
- Leslie, C.A. and Bennett Jr., J.P. [³H]Spiperone binds selectively to rat striatal D₂ dopamine receptors in vivo: a kinetic and pharmacological analysis, **407**, 253
- Lestienne, R. and Strehler, B.L. Time structure and stimulus dependence of precisely replicating patterns present in monkey cortical neuronal spike trains, **437**, 214
- Letcher, B., see Blaustein, J.D., **404**, 51
- Letter, A.A., Matsuda, L.A., Merchant, K.M., Gibb, J.W. and Hanson, G.R. Characterization of dopaminergic influence on striatal-nigral neurotensin systems, **422**, 200
- Leung, L.-W.S. and Borst, J.G.G. Electrical activity of the cingulate cortex. I. Generating mechanisms and relations to behavior, **407**, 68
- Leung, L.-W.S. Hippocampal electrical activity following local tetanization. I. Afterdischarges, **419**, 173
- Leung, L.-W.S., see Borst, J.G.G., **407**, 81
- Levi de Stein, M., see Pazo, J.H., **414**, 405
- Levin, B.E., see Battisti, W.P., **418**, 287
- Levin, E.D., see Morgan, M.M., **415**, 367
- Levine, J.D., see Taiwo, Y.O., **423**, 333
- Levine, M.S., Lloyd, R.L., Hull, C.D., Fisher, R.S. and Buchwald, N.A. Neurophysiological alterations in caudate neurons in aged cats, **401**, 213
- Levine, M.S., Schneider, J.S., Lloyd, R.L., Hull, C.D. and Buchwald, N.A. Aging reduces somatosensory responsiveness of caudate neurons in the awake cat, **405**, 389
- Levitt, P., Lau, C., Pylypiw, A. and Ross, L.L. Central adrenergic receptor changes in the inherited noradrenergic hyperinnervated mutant mouse tottering, **418**, 174
- Levy, Y., see Minc-Golomb, D., **402**, 255
- Lewis, D.A., see Morrison, J.H., **416**, 331
- Lewis, D.V., see Swartzwelder, H.S., **410**, 362
- Lewis, J., Westerberg, V. and Corcoran, M.E. Monoaminergic correlates of kindling, **403**, 205
- Lewis, J.W., Baldrighi, G. and Akil, H. A possible interface between autonomic function and pain control: opioid analgesia and the nucleus tractus solitarius, **424**, 65
- Lewis, S.J., see Shulkes, A., **415**, 404
- Lewis, S.J., see Verberne, A.J.M., **426**, 243
- Leyden, J.E., see Stoof, J.C., **423**, 364
- Li, H., see Eldred, W.D., **424**, 361
- Li, S., see Pelletier, G., **423**, 247
- Li, T., see Watt, C.B., **408**, 258
- Li, Y.-W., see Su, H.-S., **409**, 367
- Li, Z.K., see Takada, M., **436**, 129
- Libertun, C., see Kertesz, E., **413**, 10
- Liebelt, H., see Willoughby, J.O., **404**, 319
- Lieberburg, I. Developmental expression and regional distribution of the scrapie-associated protein mRNA in the rat central nervous system, **417**, 363
- Liebeskind, J.C., see Depaulis, A., **436**, 223
- Liebeskind, J.C., see Morgan, M.M., **415**, 367
- Liebeskind, J.C., see Morgan, M.M., **423**, 395
- Liebeskind, J.C., see Morgan, M.M., **425**, 356
- Liebeskind, J.C., see Nahin, R.L., **401**, 292
- Liebeskind, J.C., see Stein, C., **407**, 307
- Liebman, J.M., see O'Neil, K.A., **435**, 371
- Lightman, S.L., see Carter, D.A., **406**, 313
- Lightman, S.L., see Carter, D.A., **435**, 327
- Lightman, S.L., see Eckland, D.J.A., **421**, 161
- Lightman, S.L., see Hughes, A.M., **414**, 133
- Lightman, S.L., see Seckl, J.R., **423**, 279
- Lightman, S.L., see Vallejo, M., **422**, 295
- Liles, S.L., see Updyke, B.V., **402**, 365
- Limoli, J., see Hall, M.E., **420**, 82
- Lin, J.W., see Chang, Y.T., **417**, 205
- Lindley, S.E., see Gunnet, J.W., **424**, 371
- Linnoila, M., see Bitar, M.S., **409**, 236
- Lipinski, H.-G. and Bingmann, D. Diffusion in slice preparations bathed in unstirred solutions, **437**, 26
- Lipp, H.-P., see Crusio, W.E., **425**, 182
- Lisak, R.P., see Rostami, A., **425**, 205
- Lisk, R.D., see Takahashi, L.K., **425**, 337
- Lisney, S.J.W. and Devor, M. Afterdischarge and interactions among fibers in damaged peripheral nerve in the rat, **415**, 122
- Lister, R.G., see Goldman, D., **420**, 220
- Lister, R.G., see Nutt, D.J., **413**, 193
- Liu, R.H., see Kuo, J.S., **417**, 181
- Liu-Chen, L.-Y., see Saito, K., **403**, 66
- Liuzzi, F.J. and Miller, R.H. Radially oriented astrocytes in the normal adult rat spinal cord, **403**, 385
- Ljungberg, T., see Sharp, T., **401**, 322
- Llamas, A., see Martínez-Moreno, E., **407**, 17
- Lloyd, K.G., see Cudennec, A., **423**, 162
- Lloyd, R.L., see Levine, M.S., **401**, 213
- Lloyd, R.L., see Levine, M.S., **405**, 389
- Lo, M.-V.C., see Kendig, J.J., **435**, 24
- Lobel, D., see Lavie, V., **419**, 166
- Locock, R.A., see Hicks, T.P., **421**, 315
- Lodge, D., see Davies, S.N., **424**, 402
- Loeb, E.P., Chang, F.-L.F. and Greenough, W.T. Effects of neonatal 6-hydroxydopamine treatment upon morphological organization of the posteromedial barrel subfield in mouse somatosensory cortex, **403**, 113
- Loh, H.H., see Abood, M.E., **417**, 70
- Lomax, P., see Lee, R.J., **401**, 353
- Lombardi, G., Gandolfi, O., Dall'Olio, R., Pellegrini-Giampietro, D.E., Beni, M., Carla, V., Consolazione, A. and Moroni, F. Lesioning and recovery of the serotonergic projections to the hippocampus, **411**, 275
- Lombet, A., Fosset, M., Romey, G., Jacomet, Y. and Lazdunski, M.

- Identification in mammalian brain of an endogenous substance with Na⁺ channel blocking activities similar to those of tetrodotoxin, **417**, 327
- London, E.D., see Fanelli, R.J., **422**, 257
- London, E.D., see Weissman, A.D., **435**, 29
- Long, J.B. and Tortella, F.C.
Effects of adrenalectomy and hypophysectomy on postictal seizure protection, **402**, 155
- Long, J.B., Kinney, R.C., Malcolm, D.S., Graeber, G.M. and Holaday, J.W.
Intrathecal dynorphin A₁₋₁₃ and dynorphin A₃₋₁₃ reduce rat spinal cord blood flow by non-opioid mechanisms, **436**, 374
- Lookingland, K.J., Gunnet, J.W. and Moore, K.E.
Electrical stimulation of the arcuate nucleus increases the metabolism of dopamine in terminals of tuberoinfundibular neurons in the median eminence, **436**, 161
- Lookingland, K.J., Jarry, H.D. and Moore, K.E.
The metabolism of dopamine in the median eminence reflects the activity of tuberoinfundibular neurons, **419**, 303
- Lookingland, K.J., see Gunnet, J.W., **424**, 371
- Loopuijt, L.D., Sebens, J.B. and Korf, J.
A mosaic-like distribution of dopamine receptors in rat neostriatum and its relationship to striosomes, **405**, 405
- Lopez, M.G., see Fonteriz, R.I., **408**, 359
- López-Colomé, A.M. and Somohano, F.
Characterization of quisqualate-type L-glutamate receptors in the retina, **414**, 99
- Lorden, J.F., see Oltmans, G.A., **437**, 183
- Lorden, J.F., see Sukin, D., **426**, 82
- Löscher, W. and Schwark, W.S.
Further evidence for abnormal GABAergic circuits in amygdala-kindled rats, **420**, 385
- Louis, W.J., see Verberne, A.J.M., **426**, 243
- Louvard, D., see Stieber, A., **408**, 13
- Louvel, J., see Avoli, M., **417**, 199
- Lovenberg, W., see Swenberg, M.-L., **417**, 131
- Lovinger, D.M., Wong, K.L., Murakami, K. and Routtenberg, A.
Protein kinase C inhibitors eliminate hippocampal long-term potentiation, **436**, 177
- Low, P., see Nagata, H., **422**, 319
- Low, W.C., see Kaseda, Y., **422**, 178
- Low, W.C., Triarhou, L.C., Kaseda, Y., Norton, J. and Ghetti, B.
Functional innervation of the striatum by ventral mesencephalic grafts in mice with inherited nigrostriatal dopamine deficiency, **435**, 315
- Lowry, O.H., see Yip, V.S., **406**, 157
- Loy, R., see Springer, J.E., **407**, 180
- Lubrano, T., see Emanuele, N.V., **407**, 223
- Lucas, J.H.
Proximal segment retraction increases the probability of nerve cell survival after dendrite transection, **425**, 384
- Lucet, B., see Brisac, A.-M., **435**, 160
- Lucki, I. and Minugh-Purvis, N.
Serotonin-induced head shaking behavior in rats does not involve receptors located in the frontal cortex, **420**, 403
- Ludens, J.H., see Silvia, R.C., **403**, 52
- Ludvig, N. and Moshé, S.L.
Cyclic AMP derivatives injected into the inferior colliculus induce audiogenic seizure-like phenomena in normal rats, **437**, 193
- Ludwin, S.K., see Boegman, R.J., **417**, 315
- Lue, N.F., see Chen, G.L., **414**, 35
- Lugo-Garcia, N. and Kicliter, E.
Superior colliculus efferents to five subcortical visual system structures in the ground squirrel, **426**, 131
- Luine, V.N., see Frankfurt, M., **419**, 216
- Luine, V.N., Thornton, J.E., Frankfurt, M. and MacLusky, N.J.
Effects of hypothalamic serotonin depletion on lordosis behavior and gonadal hormone receptors, **426**, 47
- Luiten, P.G.M., Gaykema, R.P.A., Traber, J. and Spencer Jr., D.G.
Cortical projection patterns of magnocellular basal nucleus subdivisions as revealed by anterogradely transported *Phaseolus vulgaris* leucoagglutinin, **413**, 229
- Luiten, P.G.M., see Wouterlood, F.G., **406**, 330
- Lukoshkova, E.V., Kocsis, B., Shuvalova, T.B. and Khayutin, V.M.
Characterization of the very late cardiosympathetic A-reflex in high-mesencephalic cats, **412**, 357
- Luković, L., De Jong, W. and De Wied, D.
Cardiovascular effects of substance P and capsaicin microinjected into the nucleus tractus solitarii of the rat, **422**, 312
- Lumb, B.M. and Morrison, J.F.B.
An excitatory influence of dorsolateral pontine structures on urinary bladder motility in the rat, **435**, 363
- Lumia, A.R., Zebrowski, A.F. and McGinnis, M.Y.
Olfactory bulb removal decreases androgen receptor binding in amygdala and hypothalamus and disrupts masculine sexual behavior, **404**, 121
- Lund, R.D., see Hankin, M.H., **408**, 344
- Lundberg, A., see Alstermark, B., **404**, 382
- Lundberg, A., see Alstermark, B., **404**, 389
- Lundberg, A., see Alstermark, B., **404**, 395
- Luppi, P.-H., Sakai, K., Salvert, D., Fort, P. and Jouvet, M.
Peptidergic hypothalamic afferents to the cat nucleus raphe pallidus as revealed by a double immunostaining technique using unconjugated cholera toxin as a retrograde tracer, **402**, 339
- Luska, A.E., see Roberts, M.H., **423**, 286
- Lutz, E.M. and Tyrer, N.M.
Immunohistochemical localization of choline acetyltransferase in the central nervous system of the locust, **407**, 173
- Lux, H.D., see Grantyn, R., **420**, 182
- Lyden, P.D., see Zivin, J.A., **435**, 305
- Lydic, R., see Schwartz, W.J., **424**, 249
- Lynch, G., see Roman, F., **418**, 221
- Lynch, G., see Staubli, U., **435**, 227
- Lynch, G.R., see Benshoff, H.M., **420**, 397
- Lynch, K.J., see Forman, D.S., **412**, 96
- Lynch, W.C., see Paden, C.M., **418**, 349
- Lyons, W.E., see Fritschy, J.-M., **437**, 176
- Lysko, P.G., see Novelli, A., **411**, 291
- Lysz, T.W., Centra, M., Markey, K. and Keeting, P.E.
Evidence for increased activity of mouse brain fatty acid cyclooxygenase following drug-induced convulsions, **408**, 6
- Lytle, L.D., see Bronstein, D.M., **406**, 352

M

- Ma, W. and Ohara, P.T.
Synaptic glomeruli in the nucleus submedius of the rat thalamus, **415**, 331
- Ma, W., Peschanski, M. and Ralston III, H.J.
Fine structure of the spinothalamic projections to the central lateral nucleus of the rat thalamus, **414**, 187
- Maayani, S., see Clarke, W.P., **410**, 357
- Macagno, E.R., see Peinado, A., **410**, 330
- Macagno, E.R., see Peinado, A., **410**, 335
- MacDonald, J.F., see Schneiderman, J.H., **410**, 174
- MacFabe, D.F., see Borst, J.G.G., **407**, 81

- Macias-González, R., see Hernández-Cáceres, J., **437**, 360
- Maciewicz, R., see Chung, R.Y., **403**, 172
- Maciewicz, R., see Strassman, A., **423**, 293
- MacIntyre, I., see Kawai, Y., **409**, 371
- MacIntyre, I., see Kubota, Y., **415**, 385
- MacIntyre, I., see Lee, Y., **407**, 149
- MacIver, M.B., see Konopacki, J., **405**, 196
- MacIver, M.B., see Konopacki, J., **436**, 217
- MacKenzie, E.T., see Cudennec, A., **423**, 162
- MacKenzie, E.T., see Hamel, E., **420**, 391
- Mackler, S.A., see Yin, H.-S., **421**, 48
- MacLusky, N.J., Clark, C.R., Shanabrough, M. and Naftolin, F. Metabolism and binding of androgens in the spinal cord of the rat, **422**, 83
- MacLusky, N.J., see Hauser, K.F., **406**, 62
- MacLusky, N.J., see Luine, V.N., **426**, 47
- MacMillan, V.
A comparison of the effects of carbon monoxide intoxication and low-oxygen gas mixtures on cerebral biogenic amine metabolism, **408**, 40
- MacMillan, V., Leake, J., Chung, T. and Bovell, M.
The effect of valproic acid on the 5-hydroxyindoleacetic, homovanillic and lactic acid levels of cerebrospinal fluid, **420**, 268
- Macrae, I.M., Graham, D.I. and McCulloch, J.
Vasomotor effects of atrial natriuretic peptides on feline pial arterioles, **435**, 195
- MacVicar, B.A.
Morphological differentiation of cultured astrocytes is blocked by cadmium or cobalt, **420**, 175
- MacVicar, B.A., Kerrin, J.P. and Davison, J.S.
Inhibition of synaptic transmission in the hippocampus by cholecystokinin (CCK) and its antagonism by a CCK analog (CCK₂₇₋₃₃), **406**, 130
- Maderdrut, J.L., see Merchenthaler, I., **416**, 219
- Madsen, B.W., Edeson, R.O. and Milne, R.K.
Neurotransmission parameters estimated from miniature endplate current growth phase, **402**, 387
- Maeda, H. and Maki, S.
Dopamine agonists produce functional recovery from septal lesions which affect hypothalamic defensive attack in cats, **407**, 381
- Maggi, C.A., Santicoli, P., Geppetti, P., Furio, M., Frilli, S., Conte, B., Fanciullacci, M., Giuliani, S. and Meli, A.
The contribution of capsaicin-sensitive innervation to activation of the spinal vesico-vesical reflex in rats: relationship between substance P levels in the urinary bladder and the sensory-efferent function of capsaicin-sensitive sensory neurons, **415**, 1
- Maggi, C.A., Santicoli, P., Geppetti, P., Giuliani, S., Patacchini, R., Frilli, S., Grassi, J. and Meli, A.
Involvement of a peripheral site of action in the early phase of neuropeptide depletion following capsaicin desensitization, **436**, 402
- Maggi, C.A., see Jancsó, G., **418**, 371
- Magistretti, P.J., Hof, P.R. and Celio, M.R.
Noradrenergic sub-sensitivity in the cerebral cortex of the *tottering* mouse, a spontaneously epileptic mutant, **403**, 181
- Magni, F., Bruschi, F. and Kasti, M.
The afferent innervation of the thymus gland in the rat, **424**, 379
- Magnusson, O., see Ahlenius, S., **402**, 131
- Magrassi, L. and Graziadei, P.P.C.
Single olfactory organ associated with prosencephalic malformation and cyclopia in a *Xenopus laevis* tadpole, **412**, 386
- Mah, S.C., see Berecek, K.H., **401**, 303
- Mahieux, G. and Benabid, A.L.
Naloxone-reversible analgesia induced by electrical stimulation of the habenula in the rat, **406**, 118
- Maioli, C., see Lacquaniti, F., **406**, 373
- Mair, R.G., see Langlais, P.J., **421**, 140
- Maisch, B., see Morton, C.R., **410**, 347
- Majewska, M.D. and Schwartz, R.D.
Pregnenolone-sulfate: an endogenous antagonist of the γ -aminobutyric acid receptor complex in brain?, **404**, 355
- Majewska, M.D.
Antagonist-type interaction of glucocorticoids with the GABA receptor-coupled chloride channel, **418**, 377
- Majocha, R.E., see Finklestein, S.P., **413**, 267
- Maker, H.S., see Lapin, E.P., **407**, 351
- Maki, S., see Maeda, H., **407**, 381
- Makman, M.H., see Crain, S.M., **400**, 185
- Makman, M.H., see Cubells, J.F., **419**, 208
- Malaise, W.J. and Malaisse-Lagae, F.
Anomeric specificity of D-glucose metabolism in rat brain cells, **419**, 147
- Malaisse-Lagae, F., see Malaise, W.J., **419**, 147
- Malcolm, D.S., see Long, J.B., **436**, 374
- Malenka, R.C., Ayoub, G.S. and Nicoll, R.A.
Phorbol esters enhance transmitter release in rat hippocampal slices, **403**, 198
- Maler, L., see Nadi, S., **425**, 218
- Malsbury, C.W. and McKay, K.
A sex difference in the pattern of substance P-like immunoreactivity in the bed nucleus of the stria terminalis, **420**, 365
- Manasco, P.K., see Zadina, J.E., **409**, 10
- Manchanda, S.C., see Rao, T.S., **435**, 7
- Manetto, V., see Perry, G., **420**, 233
- Mangel, S.C. and Miller, R.F.
Horizontal cells contribute to the receptive field surround of ganglion cells in the rabbit retina, **414**, 182
- Mann, D.M.A., see Palmer, A.M., **414**, 365
- Mansbach, H.H., see King, P.H., **423**, 261
- Manseau, M., see Lalonde, R., **411**, 187
- Mansfield, S., see Diez-Guerra, F.J., **424**, 225
- Mansfield, S., see Grossmann, R., **415**, 205
- Mantegazza, P., see Panerai, A.E., **410**, 52
- Manteuffel, G., see Sperl, M., **404**, 332
- Manteuffel, G.
Binocular afferents to the salamander pretectum mediate rotation sensitivity of cells selective for visual background motions, **422**, 381
- Mantin, R., see Haroutunian, V., **403**, 234
- Mantyh, C.R., Kruger, L., Brecha, N.C. and Mantyh, P.W.
Localization of specific binding sites for atrial natriuretic factor in the central nervous system of rat, guinea pig, cat and human, **412**, 329
- Mantyh, P.W., see Mantyh, C.R., **412**, 329
- Manyam, B.V., Ferraro, T.N. and Hare, T.A.
Isoniazid-induced alteration of CSF neurotransmitter amino acids in Huntington's disease, **408**, 125
- Marangos, P.J., Insel, T.R., Montgomery, P. and Tamborska, E.
Brain adenosine receptors in Maudsley reactive and non-reactive rats, **421**, 69
- Marchaterre, M.A., see Grober, M.S., **436**, 148
- Marco, J., see Babu, G.N., **416**, 235
- Marcus, K., see Kellar, K.J., **436**, 62
- Marcusson, J.O., Alafuzoff, I., Bäckström, I.T., Ericson, E., Gottfries, C.G. and Winblad, B.
5-Hydroxytryptamine-sensitive [³H]imipramine binding of protein nature in the human brain. II. Effect of normal aging and dementia disorders, **425**, 137
- Marcusson, J.O., see Bäckström, I.T., **425**, 128
- Mariani, J., see Mulle, C., **421**, 194
- Mariani, A.P., Cosenza-Murphy, D. and Barker, J.L.

- GABAergic synapses and benzodiazepine receptors are not ideally distributed in the primate retina, **415**, 153
- Mariani, J., Mulle, C., Geoffroy, B. and Delhaye-Bouchaud, N. Peripheral maps and synapse elimination in the cerebellum of the rat. II. Representation of peripheral inputs through the climbing fiber pathway in the posterior vermis of X-irradiated adult rats, **421**, 211
- Marin, J., see Sanchez-Ferrer, C.F., **411**, 304
- Mark, G.P., see Scott, T.R., **414**, 197
- Markey, K., see Lysz, T.W., **408**, 6
- Markham, C.H., see Schneider, J.S., **411**, 144
- Markham, J.A., see Scheetz, A.J., **403**, 151
- Markham, J.A., see Scheetz, A.J., **409**, 329
- Marks, G.A., Speciale, S.G., Cobbe, K. and Roffwarg, H.P. Serotonergic inhibition of the dorsal lateral geniculate nucleus, **418**, 76
- Marks, T., see Ebihara, S., **416**, 136
- Markus, H. and Pomeranz, B. Saphenous has weak ineffective synapses in sciatic territory of rat spinal cord: electrical stimulation of the saphenous or application of drugs reveal these somatotopically inappropriate synapses, **416**, 315
- Marrannes, R., see Reid, K.H., **404**, 361
- Marrosu, F., Mereu, G., Fratta, W., Carcangiu, P., Camarri, F. and Gessa, G.L. Different epileptogenic activities of murine and ovine corticotropin-releasing factor, **408**, 394
- Marsden, C.A., see Routledge, C., **426**, 103
- Marsden, C.D., see Waters, C.M., **412**, 244
- Marshall, J.F., see Rhodes, K.J., **412**, 400
- Martel, J.-C., St-Pierre, S., Bédard, P.J. and Quirion, R. Comparison of [125 I]Bolton-Hunter neuropeptide Y binding sites in the forebrain of various mammalian species, **419**, 403
- Martelli, A., see Cossu, M., **415**, 399
- Martin, D.L., see Spink, D.C., **421**, 235
- Martin, J.B., see Beal, M.F., **405**, 213
- Martin, J.B., see Ellison, D.W., **417**, 389
- Martin, J.B., see Ferrante, R.J., **411**, 162
- Martin, J.B., see Tatsuoka, Y., **411**, 200
- Martin, L.L., Neale, R.F. and Wood, P.L. Down-regulation of tryptamine receptors following chronic administration of clorgyline, **419**, 239
- Martin, P., see Soubrie, P., **437**, 323
- Martin, S.A., see Krueger, J.M., **403**, 249
- Martin, S.A., see Krueger, J.M., **403**, 258
- Martin-Moutot, N., see Seagar, M.J., **411**, 226
- Martindale, M.E., see Girardot, M.-N., **409**, 19
- Martin del Rio, R., see Herreras, O., **413**, 75
- Martinez, E., see Yoshida, S., **412**, 114
- Martínez, A., Vitórica, J., Bogóñez, E. and Satrústegui, J. Differential effects of age on the pathways of calcium influx into nerve terminals, **435**, 249
- Martínez, H.J., Dreyfus, C.F., Jonakait, G.M. and Black, I.B. Nerve growth factor selectively increases cholinergic markers but not neuropeptides in rat basal forebrain in culture, **412**, 295
- Martínez-Moreno, E., Llamas, A., Avendaño, C., Renes, E. and Reinoso-Suárez, F. General plan of the thalamic projections to the prefrontal cortex in the cat, **407**, 17
- Martino, A.M. and Strick, P.L. Corticospinal projections originate from the arcuate premotor area, **404**, 307
- Martino-Barrows, A.M., see Kellar, K.J., **436**, 62
- Martinson, D., see Emanuele, N.V., **421**, 255
- Marty, M., see Erwin, V.G., **400**, 80
- Maruyama, M., Sugino, H., Akita, K. and Hatanaka, H. Binding characteristics of [3 H]opioid ligands to active opioid binding sites solubilized from rat brain membranes by glycodeoxycholate and NaCl: the recovery of binding activity by dilution, **401**, 14
- Maruyama, T., see Nagaoka, R., **410**, 283
- Mas, M., see Battaner, E., **425**, 391
- Mas, M., see Rodriguez del Castillo, A., **416**, 113
- Maši, G., see Šušić, V., **414**, 262
- Masimovsky, B., see Callaway, J.C., **405**, 295
- Mason, P., see Chung, R.Y., **403**, 172
- Mason, P., see Strassman, A., **423**, 293
- Mason, W.T., see Cobbett, P., **409**, 175
- Mason, W.T., see Inenaga, K., **405**, 159
- Massari, V.J., see Milner, T.A., **411**, 46
- Mastaglia, F.L., see Carroll, W.M., **411**, 364
- Mastaglia, F.L., see Thickbroom, G.W., **422**, 377
- Masters, B.A., Shemer, J., Juddkins, J.H., Clarke, D.W., Le Roith, D. and Raizada, M.K. Insulin receptors and insulin action in dissociated brain cells, **417**, 247
- Masuda, T., see Taguchi, H., **436**, 240
- Matsubara, K., Fukushima, S. and Fukui, Y. A systematic regional study of brain salsolinol levels during and immediately following chronic ethanol ingestion in rats, **413**, 336
- Matsubayashi, H., see Katayama, S., **422**, 168
- Matsubayashi, H., see Miyoshi, R., **420**, 302
- Matsuda, L.A., Schmidt, C.J., Gibb, J.W. and Hanson, G.R. Ascorbic acid-deficient condition alters central effects of methamphetamine, **400**, 176
- Matsuda, L.A., see Letter, A.A., **422**, 200
- Matsuda, T. and Iwata, H. Decrease of high affinity ouabain binding in rat cerebellum and hypothalamus by thiamin deficiency, **437**, 375
- Matsui, H. Effect of subthalamic stimulation on adrenal epinephrine and norepinephrine secretion in the rat, **417**, 158
- Matsui, H., Doi, A., Itano, T., Shimada, M., Wang, J.H. and Hatase, O. Immunohistochemical localization of calcineurin, calmodulin-stimulated phosphatase, in the rat hippocampus using a monoclonal antibody, **402**, 193
- Matsumoto, M., Hatakeyama, T., Yamamoto, K. and Yanagihara, T. A combined method for measurement of cerebral blood flow and immunohistochemistry for investigation of cerebral ischemia, **424**, 231
- Matsushima, R., see Tashiro, T., **424**, 391
- Matsushita, M., see Uemura, T., **406**, 73
- Matsutani, S., see Uchiyama, H., **406**, 322
- Matsuyama, T., see Wanaka, A., **435**, 91
- Matsuyama, T., Wanaka, A., Kanagawa, Y., Yoneda, S., Kimura, K., Hayakawa, T., Kamada, T. and Tohyama, M. Two discrete enkephalinergic neuron systems in the superior cervical ganglion of the guinea pig: an immunoelectron microscopic study, **418**, 325
- Matsuzawa, T. and Obara, Y. Amino acid synthesis from ornithine: enzymes and quantitative comparison in brain slices and detached retinas from rats and chicks, **413**, 314
- Matthew, W.D., see Sandrock Jr., A.W., **425**, 360
- Matthews, D.A., Salvaterra, P.M., Crawford, G.D., Houser, C.R. and Vaughn, J.E. An immunocytochemical study of choline acetyltransferase-containing neurons and axon terminals in normal and partially deafferented

- hippocampal formation, **402**, 30
- Matthies, H., see Pohle, W., **410**, 245
- Mauborgne, A., see Taquet, H., **411**, 178
- Mauk, M.D. and Thompson, R.F.
Retention of classically conditioned eyelid responses following acute decerebration, **403**, 89
- Mauri, A., see Argiolas, A., **421**, 349
- Mauro, A., see Wu, W.-H., **401**, 407
- Maximova, O.A., see Balaban, P.M., **404**, 201
- Maxwell, D.J. and Noble, R.
Relationships between hair-follicle afferent terminations and glutamic acid decarboxylase-containing boutons in the cat's spinal cord, **408**, 308
- Maxwell, K., Berliner, J.A. and Cancilla, P.A.
Induction of γ -glutamyl transpeptidase in cultured cerebral endothelial cells by a product released by astrocytes, **410**, 309
- Mazurek, M.F., see Beal, M.F., **405**, 213
- Mazzarella, V., see Zivin, J.A., **435**, 305
- McAllister II, J.P., see Walker, P.D., **425**, 34
- McAllister II, J.P., see Zemanick, M.C., **414**, 149
- McCabe, P.M., see Jarrell, T.W., **412**, 285
- McCabe, R.T., see Byerley, W.F., **421**, 377
- McCann, S.M., see Aguila, M.C., **417**, 127
- McCarley, R.W., Ito, K. and Rodrigo-Angulo, M.L.
Physiological studies of brainstem reticular connectivity. II. Responses of mPRF neurons to stimulation of mesencephalic and contralateral pontine reticular formation, **409**, 111
- McCarley, R.W., see Baghdoyan, H.A., **414**, 245
- McCarley, R.W., see Ito, K., **409**, 97
- McCaslin, P.P. and Morgan, W.W.
Activity-induced elevation of cerebellar cyclic GMP occurs in the absence of climbing fiber pathways, **414**, 381
- McCaslin, P.P. and Morgan, W.W.
Cultured cerebellar cells as an in vitro model of excitatory amino acid receptor function, **417**, 380
- McComb, J.G., see Hyman, S., **419**, 104
- McConnell, E.J., see Byerley, W.F., **421**, 377
- McCulloch, J., see Kelly, P.A.T., **425**, 290
- McCulloch, J., see Macrae, I.M., **435**, 195
- McCulloch, J., see Cudennec, A., **423**, 162
- McDevitt, C.J., Ebner, T.J. and Bloedel, J.R.
Changes in the responses of cerebellar nuclear neurons associated with the climbing fiber response of Purkinje cells, **425**, 14
- McDevitt, C.J., Ebner, T.J. and Bloedel, J.R.
Relationships between simultaneously recorded Purkinje cells and nuclear neurons, **425**, 1
- McDevitt, L., Fortner, P. and Pomeranz, B.
Application of weak electric field to the hindpaw enhances sciatic motor nerve regeneration in the adult rat, **416**, 308
- McDevitt, R., see Klein, E., **407**, 312
- McDonough Jr., J.H., McLeod Jr., C.G. and Nipwoda, M.T.
Direct microinjection of soman or VX into the amygdala produces repetitive limbic convulsions and neuropathology, **435**, 123
- McEntee, W.J., see Langlais, P.J., **421**, 140
- McEwen, B., see Harrelson, A., **404**, 89
- McGeer, E.G., see Beach, T.G., **408**, 251
- McGeer, E.G., see Mizukawa, K., **426**, 28
- McGeer, E.G., see Tago, H., **406**, 363
- McGeer, P.L., see Mizukawa, K., **426**, 28
- McGeer, P.L., see Tago, H., **406**, 363
- McGeer, P.L., see Tago, H., **415**, 49
- McGeer, P.L., see Tomimoto, H., **425**, 248
- McGeorge, A.J. and Faull, R.L.M.
The organization and collateralization of corticostriate neurones in the motor and sensory cortex of the rat brain, **423**, 318
- McGinnis, M.Y., see Lumia, A.R., **404**, 121
- McGinty, J.F., see Lee, R.J., **401**, 353
- McHugh, P.R., see Moran, T.H., **415**, 149
- McIlroy, W.E. and Brooke, J.D.
Response synergies over a single leg when it is perturbed during the complex rhythmic movement of pedalling, **407**, 317
- McIntosh, T.K., Head, V.A. and Faden, A.I.
Alterations in regional concentrations of endogenous opioids following traumatic brain injury in the cat, **425**, 225
- McKay, K., see Malsbury, C.W., **420**, 365
- McKinley, M.J., Allen, A.M., Clevers, J., Paxinos, G. and Mendelsohn, F.A.O.
Angiotensin receptor binding in human hypothalamus: autoradiographic localization, **420**, 375
- McKinley, M.J., see Weisinger, R.S., **420**, 135
- McKinnon, G., Davidson, M., De Jersey, J., Shanley, B. and Ward, L.
Effects of acetaldehyde on polymerization of microtubule proteins, **416**, 90
- McLane, J.A., see Held, I.R., **407**, 341
- McLaughlin, P.J., see Hauser, K.F., **416**, 157
- McLaughlin, P.J., see Zagon, I.S., **412**, 68
- McLennan, I.S., see Hendry, I.A., **402**, 264
- McLeod Jr., C.G., see McDonough Jr., J.H., **435**, 123
- McMillan, D.E., see Scallet, A.C., **436**, 193
- McNamara, J.O., see Bonhaus, D.W., **405**, 358
- McNamara, J.O., see Bonhaus, D.W., **407**, 102
- McNamara, J.O., see Crain, B.J., **412**, 343
- McNamara, J.O., see King, P.H., **423**, 261
- McNamara, J.O., see Shin, C., **411**, 21
- McNamara, J.O., see Shin, C., **412**, 311
- McNaughton, B.L., see Leonard, B.J., **425**, 174
- McNaughton, B.L., see Rao, G., **408**, 267
- McWilliams, C., see Wirtshafter, D., **408**, 349
- Mecifi, K.B., see Byers, M.R., **419**, 311
- Meck, W.H., see Olton, D.S., **404**, 180
- Medina, J.H., see Pazo, J.H., **414**, 405
- Meeker, M.L., Meeker, R.B. and Hayward, J.N.
Accumulation of circulating endogenous and exogenous immunoglobulins by hypothalamic magnocellular neurons, **423**, 45
- Meeker, R.B., see Meeker, M.L., **423**, 45
- Meelis, W., see Lammers, J.H.C.M., **418**, 1
- Megerdichian, L., see Hyman, S., **419**, 104
- Meguri, H., see Ohgaki, T., **425**, 364
- Mehler, W.R., see D'Amelio, F.E., **410**, 232
- Meiri, H., see Banin, E., **423**, 359
- Meissl, H., see Thiele, G., **424**, 10
- Mekhail-Ishak, K., Lavoie, P.-A. and Sharkawi, M.
Effects of caffeine and cyclic adenosine 3',5'-monophosphate on adenosine triphosphate-dependent calcium uptake by lysed brain synaptosomes, **426**, 62
- Melamed, E., see Fishman, R.H.B., **410**, 343
- Mele, S., see Porceddu, M.L., **424**, 264
- Meli, A., see Maggi, C.A., **415**, 1
- Meli, A., see Maggi, C.A., **436**, 402
- Melis, M.R., Argiolas, A. and Gessa, G.L.
Apomorphine-induced penile erection and yawning: site of action in brain, **415**, 98
- Melis, M.R., see Argiolas, A., **421**, 349
- Meller, E., see Pich, E.M., **435**, 147
- Melvin, J.E., see Newton, B.W., **404**, 151
- Melzack, R., see Coderre, T.J., **404**, 95
- Menadue, M.F., see Willoughby, J.O.,

- 404**, 319
Menaker, M., see Cahill, G.M., **410**, 125
Menaker, M., see Ebihara, S., **416**, 136
Mendelsohn, F.A.O., see McKinley, M.J., **420**, 375
Mense, S., see Hoheisel, U., **423**, 269
Merchant, K.M., see Letter, A.A., **422**, 200
Merchenthaler, I., Maderdrut, J.L., Lázár, G., Gulyás, J. and Petrusz, P.
Immunocytochemical analysis of proenkephalin-derived peptides in the amphibian hypothalamus and optic tectum, **416**, 219
Meredith, M., see White, J., **400**, 159
Meredith, G.E., see Roberts, B.L., **437**, 171
Mereu, G., Hu, X.-T., Wang, R.Y., Westfall, T.C. and Gessa, G.L.
Failure of subchronic lisuride to modify A10 dopamine autoreceptors' sensitivity, **408**, 210
Mereu, G., see Marrosu, F., **408**, 394
Meshul, C.K., Seil, F.J. and Herndon, R.M.
Astrocytes play a role in regulation of synaptic density, **402**, 139
Messer Jr., W.S. and Hoss, W.
Selectivity of pirenzepine in the central nervous system. I. Direct autoradiographic comparison of the regional distribution of pirenzepine and carbamylcholine binding sites, **407**, 27
Messer Jr., W.S., Thomas, G.J. and Hoss, W.
Selectivity of pirenzepine in the central nervous system. II. Differential effects of pirenzepine and scopolamine on performance of a representational memory task, **407**, 37
Messer Jr., W.S., Thomas, G.J., Price, M. and Hoss, W.
Selectivity of pirenzepine in the central nervous system. III. Differential effects of multiple pirenzepine and scopolamine administrations on muscarinic receptors as measured autoradiographically, **407**, 46
Messing, R.O., see Greenberg, D.A., **404**, 401
Messing, R.O., see Greenberg, D.A., **410**, 143
Mesulam, M.-M., see Mufson, E.J., **417**, 385
Metcalfe, R., see Boegman, R.J., **417**, 315
Metcalfe, L., see Emanuele, N.V., **407**, 223
Metcalfe, L., see Emanuele, N.V., **421**, 255
Meulemans, A., Poulain, B., Baux, G. and Tauc, L.
Changes in serotonin concentration in a living neurone: a study by on-line intracellular voltammetry, **414**, 158
Meyer, D.L., see von Bartheld, C.S., **420**, 277
Meyer, E.M., see O'Malley, C.A., **403**, 389
Meyer, R.A. and Campbell, J.N.
Coupling between unmyelinated peripheral nerve fibers does not involve sympathetic efferent fibers, **437**, 181
Meyer-Lohmann, J., see Windhorst, U., **408**, 289
Meyerovitch, J., see Amir, S., **419**, 392
Mezey, É., see Palkovits, M., **436**, 323
Miceli, D., see Reperant, J., **408**, 233
Miceli, D., see Weidner, C., **419**, 357
Miceli, D., see Weidner, C., **436**, 153
Miceli, M.O., Post, C.A. and Van der Kooy, D.
Catecholamine and serotonin colocalization in projection neurons of the area postrema, **412**, 381
Miceli, M.O., Van der Kooy, D., Post, C.A., Della-Fera, M.A. and Baile, C.A.
Differential distributions of cholecystokinin in hamster and rat forebrain, **402**, 318
Micevych, P.E., see Nahin, R.L., **401**, 292
Michael, A.C., Ikeda, M. and Justice Jr., J.B.
Mechanisms contributing to the recovery of striatal releasable dopamine following MFB stimulation, **421**, 325
Michaelis, E.K., see Michaelis, M.L., **414**, 239
Michaelis, M.L., Michaelis, E.K., Nunley, E.W. and Galton, N.
Effects of chronic alcohol administration on synaptic membrane $\text{Na}^+ - \text{Ca}^{2+}$ exchange activity, **414**, 239
Michel, J.-P., see Sakamoto, N., **403**, 31
Michelsen, D.B. and Braun, G.H.-U.
Circling behavior in honey bees, **421**, 14
Mickley, G.A., Teitelbaum, H. and Reier, P.J.
Fetal hypothalamic brain grafts reduce the obesity produced by ventromedial hypothalamic lesions, **424**, 239
Midha, R., Fehlings, M.G., Tator, C.H., Saint-Cyr, J.A. and Guha, A.
Assessment of spinal cord injury by counting corticospinal and rubrospinal neurons, **410**, 299
Mies, G., see Drewes, L.R., **401**, 55
Mifflin, S. and Richter, D.W.
The effects of QX-314 on medullary respiratory neurons, **420**, 22
Mihelin, M., see Zidar, J., **422**, 196
Miki, N., see Pasteels, B., **412**, 107
Miklossy, J. and Van der Loos, H.
Cholesterol ester crystals in polarized light show pathways in the human brain, **426**, 377
Miletic, V., see Coffield, J.A., **425**, 380
Millan, M.H., see Millan, M.J., **407**, 199
Millan, M.J., Członkowski, A., Millan, M.H. and Herz, A.
Activation of periaqueductal grey pools of β -endorphin by analgetic electrical stimulation in freely moving rats, **407**, 199
Millan, M.J., Czonkowski, A. and Herz, A.
An analysis of the 'tolerance' which develops to analgetic electrical stimulation of the midbrain periaqueductal grey in freely moving rats, **435**, 97
Millan, M.J., Morris, B.J., Colpaert, F.C. and Herz, A.
A model of chronic pain in the rat: high-resolution neuroanatomical approach identifies alterations in multiple opioid systems in the periaqueductal grey, **416**, 349
Millar, R.P., see Silverman, A.-J., **402**, 346
Millar, T.J. and Chubb, I.W.
The ultrastructural localization of acetylcholinesterase-like immunoreactivity in the chicken retina, **421**, 297
Miller Jr., C.H., see Pappolla, M., **424**, 272
Miller, D.B., Blackman, C.F. and O'Callaghan, J.P.
An increase in glial fibrillary acidic protein follows brain hyperthermia in rats, **415**, 371
Miller, L.G., Thompson, M.L., Greenblatt, D.J., Deutsch, S.I., Shader, R.I. and Paul, S.M.
Rapid increase in brain benzodiazepine receptor binding following defeat stress in mice, **414**, 395
Miller, M.S., see Oaklander, A.L., **419**, 39
Miller, R.F., see Arkin, M.S., **426**, 142
Miller, R.F., see Mangel, S.C., **414**, 182
Miller, R.H., see Liuzzi, F.J., **403**, 385
Millhorn, D.E., Hökfelt, T., Seroogy, K., Oertel, W., Verhofstad, A.A.J. and Wu, J.-Y.
Immunohistochemical evidence for colocalization of γ -aminobutyric acid and serotonin in neurons of the ventral medulla oblongata projecting to the spinal cord, **410**, 179
Millhorn, D.E., see Lawing, W.L., **435**, 322
Millhorn, D.E., Seroogy, K., Hökfelt, T., Schmued, L.C., Terenius, L., Buchan, A. and Brown, J.C.
Neurons of the ventral medulla oblongata that contain both somatostatin and enkephalin immunoreactivities project to nucleus tractus solitarius and spinal cord, **424**, 99
Milligan, G., see Lad, R.P., **423**, 237
Milne, R.K., see Madsen, B.W., **402**, 387
Milner, T.A., Pickel, V.M., Chan, J., Massari, V.J., Oertel, W.H.,

- Park, D.H., Joh, T.H. and Reis, D.J.
Phenylethanolamine N-methyltransferase-containing neurons in the rostral ventrolateral medulla. II. Synaptic relationships with GABAergic terminals, **411**, 46
- Milner, T.A., Pickel, V.M., Park, D.H., Joh, T.H. and Reis, D.J.
Phenylethanolamine N-methyltransferase-containing neurons in the rostral ventrolateral medulla of the rat. I. Normal ultrastructure, **411**, 28
- Milosévić, I., see Salimova, N.B., **400**, 285
- Mimura, K.
The effect of partial covering of the eye on the results of selective deprivation of visual pattern in the fly, **437**, 97
- Minabe, Y., Tanii, Y., Kadono, Y., Tsutsumi, M. and Kurachi, M.
Serial changes of the susceptibility of epileptogenic focus during hippocampal kindling induced with low-frequency electrical stimulation in cats, **408**, 286
- Minamitani, N., see Albers, H.E., **437**, 189
- Minc-Golomb, D., Levy, Y., Kleinberger, N. and Schramm, M.
 D -[3H]Aspartate release from hippocampus slices studied in a multiwell system: controlling factors and postnatal development of release, **402**, 255
- Minciocchi, D., Tassinari, G. and Antonini, A.
Visual and somatosensory integration in the anterior ectosylvian cortex of the cat, **410**, 21
- Mink, J.W. and Thach, W.T.
Preferential relation of pallidal neurons to ballistic movements, **417**, 393
- Minson, J.B., see Pilowsky, P.M., **420**, 380
- Mintz, M., see Douglas, R., **418**, 111
- Minugh-Purvis, N., see Lucki, I., **420**, 403
- Mirmiran, M., see Roozendaal, B., **409**, 259
- Mirmiran, M., see Van Gool, W.A., **413**, 384
- Mirmiran, M., see Kruisbrink, J., **419**, 76
- Mishkin, M., see Nelson, R.B., **416**, 387
- Mitani, A., see Itoh, K., **400**, 145
- Mitchell, C.L., Grimes, L., Hudson, P.M. and Hong, J.-S.
Stimulation of the perforant path alters hippocampal levels of opioid peptides, glutamine and GABA, **435**, 343
- Mitchell, I.J., see Redgrave, P., **413**, 170
- Mitchell, R.A., Herbert, D.A., Baker, D.G. and Basbaum, C.B.
In vivo activity of tracheal parasympathetic ganglion cells innervating tracheal smooth muscle, **437**, 157
- Mitchell, S.J., see Kitt, C.A., **406**, 192
- Mithen, F.A., see Bircham, R., **421**, 173
- Mitsugi, N., see Kimura, F., **410**, 315
- Mitsuhiro, Y., see Yoshida, A., **416**, 393
- Miwa, A., Kawai, N. and Ui, M.
Pertussis toxin blocks presynaptic glutamate receptors — a novel 'glutamate_B' receptor in the lobster neuromuscular synapse, **416**, 162
- Miyakawa, H., see Kudo, Y., **407**, 168
- Miyakawa, M. and Arai, Y.
Synaptic plasticity to estrogen in the lateral septum of the adult male and female rats, **436**, 184
- Miyake, J., see Hirano, T., **400**, 171
- Miyamoto, M., Kato, J., Narumi, S. and Nagaoka, A.
Characteristics of memory impairment following lesioning of the basal forebrain and medial septal nucleus in rats, **419**, 19
- Miyamoto, T., see Sato, T., **424**, 333
- Miyashita, E., see Nakai, M., **414**, 91
- Miyazaki, N., see Uemura, T., **406**, 73
- Miyoshi, R., Kito, S., Shimizu, M. and Matsubayashi, H.
Ontogeny of muscarinic receptors in the rat brain with emphasis on the differentiation of M_1 - and M_2 -subtypes — semi-quantitative in vitro autoradiography, **420**, 302
- Miyoshi, R., see Katayama, S., **422**, 168
- Mizukawa, K., McGeer, P.L., Vincent, S.R. and McGeer, E.G.
The distribution of somatostatin-immunoreactive neurons and fibers in the rat cerebral cortex: light and electron microscopic studies, **426**, 28
- Mizukawa, K., see Takayama, H., **436**, 291
- Mizukoshi, T., see Ninomiya, Y., **404**, 350
- Mizuno, N., see Itoh, K., **400**, 145
- Mizuno, N., see Sugimoto, T., **418**, 392
- Mizuno, N., see Tashiro, T., **424**, 391
- Mizuno, N., see Uemura, Y., **416**, 200
- Mizuno, N., see Yasui, Y., **408**, 334
- Mo, N. and Dun, N.J.
Is glycine an inhibitory transmitter in rat lateral horn cells?, **400**, 139
- Modert, C.W., see Schmidt, R.E., **401**, 142
- Moffett, J.R., see Anderson, K.J., **411**, 172
- Mogensen, J., see Jørgensen, O.S., **405**, 39
- Mogenson, G.J., Ciriello, J., Garland, J. and Wu, M.
Ventral pallidum projections to mediodorsal nucleus of the thalamus: an anatomical and electrophysiological investigation in the rat, **404**, 221
- Mogenson, G.J., see Mok, D., **407**, 332
- Mogenson, G.J., see Swanson, L.W., **405**, 108
- Moghaddam, B. and Adams, R.N.
Regional differences in resting extracellular potassium levels of rat brain, **406**, 337
- Moises, H.C. and Smith, C.B.
Changes in cortical β -adrenergic receptor density and neuronal sensitivity to norepinephrine accompany morphine dependence and withdrawal, **400**, 110
- Moises, H.C.
Electrophysiological correlates of presynaptic opiate receptor activation: reduction in norepinephrine-mediated inhibition from the locus coeruleus, **423**, 149
- Moises, H.C., see Feldman, P.D., **420**, 351
- Mok, D. and Mogenson, G.J.
Convergence of signals in the zona incerta for angiotensin-mediated and osmotic thirst, **407**, 332
- Mokuno, K., see Yasuda, T., **436**, 113
- Molgo, J., Angaut-Petit, D. and Thesleff, S.
In botulinum type A-poisoned frog motor endings ouabain induces phasic transmitter release through Na^+ - Ca^{2+} exchange, **410**, 385
- Molinari, M., Hendry, S.H.C. and Jones, E.G.
Distributions of certain neuropeptides in the primate thalamus, **426**, 270
- Molliver, M.E., see Fritschy, J.-M., **437**, 176
- Monaghan, P.L., see Clements, J.R., **421**, 343
- Mondadori, C. and Petschke, F.
Do piracetam-like compounds act centrally via peripheral mechanisms?, **435**, 310
- Moniot, B., see Sans, A., **435**, 293
- Montastruc, J.-L., see Brisac, A.-M., **435**, 160
- Monteau, R., see Saether, K., **419**, 87
- Montgomery, P., see Marangos, P.J., **421**, 69
- Moonen, G., see Lefebvre, P.P., **413**, 120
- Moore, K.E., see Gunnet, J.W., **424**, 371
- Moore, K.E., see Lookingland, K.J., **419**, 303
- Moore, K.E., see Lookingland, K.J., **436**, 161
- Moore, K.E., see Shannon, N.J., **402**, 287
- Moore, K.E., see Shannon, N.J., **416**, 322
- Moore, L.E., Hill, R.H. and Grillner, S.
Voltage clamp analysis of lamprey neurons — role of N-methyl-D-aspartate receptors in fictive locomotion, **419**, 397
- Moore, L.L., see Baumeister, A.A., **411**, 183
- Moore, R.Y., see Shibata, S., **426**, 332
- Moore-Ede, M.C., see Schwartz, W.J.,

- 424, 249
- Morales, A., Ivorra, I. and Gallego, R. Membrane properties of glossopharyngeal sensory neurons in the petrosal ganglion of the cat, **401**, 340
- Morales, E. and Tapia, R. Neurotransmitters of the cerebellar glomeruli: uptake and release of labeled γ -aminobutyric acid, glycine, serotonin and choline in a purified glomerulus fraction and in granular layer slices, **420**, 11
- Morales, F.R., see Soja, P.J., **423**, 353
- Morales-Ramirez, M., see Calvo, J.M., **403**, 22
- Moran, T.H., see Kubos, K.L., **401**, 147
- Moran, T.H., Smith, G.P., Hostetler, A.M. and McHugh, P.R. Transport of cholecystokinin (CCK) binding sites in subdiaphragmatic vagal branches, **415**, 149
- Morandi, A., Gambetti, P., Arora, P.K. and Sayre, L.M. Mechanism of neurotoxic action of β , β' -iminodipropionitrile (IDPN): *N*-hydroxylation enhances neurotoxic potency, **437**, 69
- Moreau, J.-L., see Fang, F.G., **420**, 171
- Morell, P., see Armstrong, R., **412**, 196
- Moreno, A.P., Ramon, F. and Spray, D.C. Variation of gap junction sensitivity to H ions with time of day, **400**, 181
- Morgan, D.G., see Osterburg, H.H., **409**, 31
- Morgan, I.G., see Ehrlich, D., **415**, 342
- Morgan, I.G., see Tung, N.N., **435**, 153
- Morgan, M.M. and Liebeskind, J.C. Site specificity in the development of tolerance to stimulation-produced analgesia from the periaqueductal gray matter of the rat, **425**, 356
- Morgan, M.M., Depaulis, A. and Liebeskind, J.C. Diazepam dissociates the analgesic and aversive effects of periaqueductal gray stimulation in the rat, **423**, 395
- Morgan, M.M., Levin, E.D. and Liebeskind, J.C. Characterization of the analgesic effects of the benzodiazepine antagonist, Ro 15-1788, **415**, 367
- Morgan, M.M., see Depaulis, A., **436**, 223
- Morgan, M.M., see Stein, C., **407**, 307
- Morgan, W.W., see Brainard, G.C., **424**, 199
- Morgan, W.W., see Brooks, B.A., **419**, 329
- Morgan, W.W., see McCaslin, P.P., **414**, 381
- Morgan, W.W., see McCaslin, P.P., **417**, 380
- Morgane, P.J., see Glezer, I.I., **414**, 205
- Mori, W., see Hasegawa, A., **409**, 343
- Mori, K. Monoclonal antibodies (2C5 and 4C9) against lactoseries carbohydrates identify subsets of olfactory and vomeronasal receptor cells and their axons in the rabbit, **408**, 215
- Mori, K., see Ono, K., **435**, 84
- Mori, N. and Wada, J.A. Bidirectional transfer between kindling induced by excitatory amino acids and electrical stimulation, **425**, 45
- Mori-Okamoto, J., Okamoto, K. and Sekiguchi, M. Electrophysiological and pharmacological actions of *N*-acetylaspartylglutamate intracellularly studied in cultured chick cerebellar neurons, **401**, 60
- Morilak, D.A., Fornal, C.A. and Jacobs, B.L. Effects of physiological manipulations on locus coeruleus neuronal activity in freely moving cats. I. Thermoregulatory challenge, **422**, 17
- Morilak, D.A., Fornal, C.A. and Jacobs, B.L. Effects of physiological manipulations on locus coeruleus neuronal activity in freely moving cats. II. Cardiovascular challenge, **422**, 24
- Morilak, D.A., Fornal, C.A. and Jacobs, B.L. Effects of physiological manipulations on locus coeruleus neuronal activity in freely moving cats. III. Glucoregulatory challenge, **422**, 32
- Morimoto, M., see Shimizu, N., **416**, 153
- Morimoto, K., Otani, S. and Goddard, G.V. Effects of acute and long-term treatment with amphetamine on evoked responses and long-term potentiation in the dentate gyrus of anesthetized rats, **407**, 137
- Morimoto, M., see Kubota, T., **421**, 30
- Morin-Surun, M.-P., see Foutz, A.S., **404**, 10
- Morioka, H., see Inui, A., **417**, 355
- Morley, B.J. and Fleck, D.L. A time course and dose-response study of the regulation of brain nicotinic receptors by dietary choline, **421**, 21
- Morley, J.E., see Flood, J.F., **421**, 280
- Morley, J.E., see Flood, J.F., **422**, 218
- Moroni, F., see Lombardi, G., **411**, 275
- Morrell, F., see Geinisman, Y., **422**, 352
- Morrell, F., see Geinisman, Y., **423**, 179
- Morris, B.J., see Millan, M.J., **416**, 349
- Morris, M.J., see Pilowsky, P.M., **420**, 380
- Morris, R. Inhibition of nociceptive responses of laminae V-VII dorsal horn neurones by stimulation of mixed and muscle nerves, in the cat, **401**, 365
- Morrison, J.F.B., see Lumb, B.M., **435**, 363
- Morrison, J.H., Lewis, D.A., Campbell, M.J., Huntley, G.W., Benson, D.L. and Bouras, C. A monoclonal antibody to non-phosphorylated neurofilament protein marks the vulnerable cortical neurons in Alzheimer's disease, **416**, 331
- Morrison, S.F., see Gebber, G.L., **410**, 106
- Morrow, C., see Jeremy, J., **419**, 364
- Morrow, G.D., see Wilson, J.S., **423**, 329
- Morrow, T.J., see Casey, K.L., **408**, 377
- Morton, C.R., Maisch, B. and Zimmermann, M. Diffuse noxious inhibitory controls of lumbar spinal neurons involve a supraspinal loop in the cat, **410**, 347
- Morton, C.R., see Duggan, A.W., **403**, 345
- Mos, J., Olivier, B., Lammers, J.H.C.M., Van der Poel, A.M., Kruk, M.R. and Zethof, T. Postpartum aggression in rats does not influence threshold currents for EBS-induced aggression, **404**, 263
- Mosberg, H.I., see Heyman, J.S., **420**, 100
- Moscovitz, H.C., see Gibson, M.J., **424**, 133
- Moses, D.F., Ortí, E. and De Nicola, A.F. A comparison of the glucocorticoid receptor system in the spinal cord and hippocampus, **408**, 118
- Moshé, S.L., see Ludvig, N., **437**, 193
- Moskowitz, M.A., see Saito, K., **403**, 66
- Moss, L.E., see Oltmans, G.A., **437**, 183
- Motles, E., Saavedra, H., Infante, C., Leiva, J. and Gonzalez, M. Study of the morphological, electrophysiological and behavioral effects of unilateral kainic acid injection into the cat's substantia nigra, **405**, 165
- Motohashi, N., see Cudennec, A., **423**, 162
- Mountjoy, C.O., see Arai, H., **418**, 164
- Mourre, C., Cervera, P. and Lazdunski, M. Autoradiographic analysis in rat brain of the postnatal ontogeny of voltage-dependent Na⁺ channels, Ca²⁺-dependent K⁺ channels and slow Ca²⁺ channels identified as receptors for tetrodotoxin, apamin and (-)-desmethoxyverapamil, **417**, 21
- Mourre, C., see Bidard, J.-N., **418**, 235
- Mower, G.D., see Christen, W.G.,

- 415, 233
 Mozaffari, B., see Walz, W., **412**, 405
 Mozell, M.M., see Hornung, D.E., **413**, 147
 Mroz, E.A., see Adams, J.C., **419**, 347
 Mrzljak, L., see Seress, L., **405**, 169
 Mucha, R.F.
 Is the motivational effect of opiate withdrawal reflected by common somatic indices of precipitated withdrawal? A place conditioning study in the rat, **418**, 214
 Mudd, L., see Clarke, D., **421**, 358
 Mueller, G.P., see Hargreaves, K.M., **422**, 154
 Mueller, K.
 Voltammetric evidence in vivo of cholinergic modulation of extracellular ascorbic acid and uric acid in rat striatum, **408**, 313
 Mufson, E.J., Kehr, A.D., Wainer, B.H. and Mesulam, M.-M.
 Cortical effects of neurotoxic damage to the nucleus basalis in rats: persistent loss of extrinsic cholinergic input and lack of transsynaptic effect upon the number of somatostatin-containing, cholinesterase-positive, and cholinergic cortical neurons, **417**, 385
 Mufson, E.J., Labbe, R. and Stein, D.G.
 Morphologic features of embryonic neocortex grafts in adult rats following frontal cortical ablation, **401**, 162
 Mukainaka, T., see Kuriyama, K., **416**, 7
 Mulder, A.H., see Radhakishun, F.S., **426**, 235
 Mulle, C., Delhaye-Bouchaud, N. and Mariani, J.
 Peripheral maps and synapse elimination in the cerebellum of the rat. I. Representation of peripheral inputs through the climbing fiber pathway in the posterior vermis of the normal adult rat, **421**, 194
 Mulle, C., see Mariani, J., **421**, 211
 Mullen, C.A., see Fritschy, J.-M., **437**, 176
 Müller, C.M. and Scheich, H.
 GABAergic inhibition increases the neuronal selectivity to natural sounds in the avian auditory forebrain, **414**, 376
 Müller, H., Williams, L.R. and Varon, S.
 Nerve regeneration chamber: evaluation of exogenous agents applied by multiple injections, **413**, 320
 Mulvaney, S.A., see Heyman, J.S., **420**, 100
 Muneoka, Y., see Hirata, T., **422**, 374
 Munoz, M., see Gonzalez, A., **423**, 338
 Munoz, D.G., see Sidhu, H.S., **435**, 334
 Muñoz, C., see Huston, J.P., **436**, 1
 Muñoz, C., see Berdichevsky, E., **423**, 213
 Murai, I. and Ben-Jonathan, N.
 Prolactin secretion in posterior pituitary lobectomized rats: differential effects of 5-hydroxytryptophan and ether, **420**, 227
 Murakami, F., Higashi, S., Katsumaru, H. and Oda, Y.
 Formation of new corticorubral synapses as a mechanism for classical conditioning in the cat, **437**, 379
 Murakami, K., see Lovinger, D.M., **436**, 177
 Murakami, T.H., see Ozaki, H.S., **400**, 239
 Murakami, Y., Kato, Y., Koshiyama, H., Inoue, T., Ishikawa, Y. and Imura, H.
 Involvement of α -adrenergic and GABAergic mechanisms in growth hormone secretion induced by central somatostatin in rats, **407**, 405
 Muramatsu, I., see Yamanaka, K., **409**, 395
 Muramoto, K., see Nishino, H., **413**, 302
 Murphy, J.T., see Kwan, H.C., **400**, 259
 Murphy, R.A., see Siminoski, K., **435**, 273
 Murphy, S., see Jeremy, J., **419**, 364
 Murphy, V.A., see Rechthand, E., **406**, 185
 Murray, M., see Barr, G.A., **418**, 301
 Murray, M., see Battisti, W.P., **418**, 287
 Murray, M., see Eckenrode, T.C., **418**, 273
 Musi, E.A., see Cannata, M.A., **420**, 295
 Myers, T.G., see Fatehi, M.I., **415**, 30
 Mytilineou, C., see Slivka, A., **409**, 275

N

- in skeletal muscles of deoxycorticosterone hypertensive rats, **410**, 283
 Nagara, H., see Inoue, T., **414**, 309
 Nagara, H., see Kondo, A., **412**, 73
 Nagata, T., see Izumiyama, K., **416**, 175
 Nagata, Y., see Seto-Ohshima, A., **410**, 292
 Nagata, H., Brimijoin, S., Low, P. and Schmelzer, J.D.
 Slow axonal transport in experimental hypoxia and in neuropathy induced by *p*-bromophenylacetylurea, **422**, 319
 Nagatsu, I., see Kosaka, T., **413**, 197
 Nagatsu, I., see Yoshida, M., **410**, 169
 Nagatsu, I., see Kosaka, K., **403**, 355
 Nagatsu, I., see Kosaka, T., **411**, 373
 Nagatsu, I., see Uemura, Y., **416**, 200
 Nagatsu, T., see Yoshida, M., **410**, 169
 Nagel, J.A., see Schwarting, R., **417**, 75
 Nah, H.-D., see Whitehead, M.C., **405**, 192
 Nahin, R.L., Micevych, P.E. and Liebeskind, J.C.
 Neurochemical identification of afferents onto spinomedullary neurons in the rat spinal cord central gray matter, **401**, 292
 Nahin, R.L., see Hylden, J.L.K., **411**, 341
 Naitoh, H., see Ishihara, A., **435**, 355
 Nakagami, Y., see Suda, T., **405**, 247
 Nakagawa, H., see Tsubaki, S.I., **424**, 71
 Nakagawa, Y., Nakamura, S., Kaše, Y., Noguchi, T. and Ishihara, T.
 Colchicine lesions in the rat hippocampus mimic the alterations of several markers in Alzheimer's disease, **408**, 57
 Nakahama, H., see Inase, M., **426**, 205
 Nakahiro, M., see Fukuchi, I., **400**, 53
 Nakai, Y., see Shioda, S., **402**, 355
 Nakai, M., Tamai, Y. and Miyashita, E.
 Corticocortical connections of frontal oculomotor areas in the cat, **414**, 91
 Nakajima, S., see Hamasaki, T., **422**, 172
 Nakajima, T., Yashima, Y. and Nakamura, K.
 Higher density of ¹²⁵I-neuropeptide Y receptors in the area postrema of SHR, **417**, 360
 Nakamura, K., see Nakajima, T., **417**, 360
 Nakamura, Y., see Tokuno, H., **436**, 76
 Nakamura, S., see Hara, K., **410**, 371
 Nakamura, S., see Nakagawa, Y., **408**, 57
 Nakanishi, H., Kita, H. and Kitai, S.T.
 Electrical membrane properties of rat subthalamic neurons in an in vitro slice preparation, **437**, 35
 Nakanishi, H., Kita, H. and Kitai, S.T.
 Intracellular study of rat substantia nigra pars reticulata neurons in an in

vitro slice preparation: electrical membrane properties and response characteristics to subthalamic stimulation, **437**, 45

Nakanishi, K., see Kitamura, T., **423**, 189

Nakano, T., see Kondo, A., **425**, 186

Nakata, H., see Haan, E.A., **426**, 19

Namboodiri, M.A.A., see Anderson, K.J., **411**, 172

Namboodiri, M.A.A., see Kowalski, M.M., **406**, 397

Nance, D.M., see Harrington, M.E., **410**, 275

Napoleone, P., Erdö, S. and Amenta, F.

Autoradiographic localization of the GABA_A receptor agonist [³H]muscimol in rat cerebral vessels, **423**, 109

Narahashi, T., see Tsunoo, A., **407**, 55

Narahashi, T., see Yoshii, M., **424**, 119

Narcisse, G., see Huguet, F., **412**, 125

Narcisse, G., see Brisac, A.-M., **435**, 160

Narumi, S., see Miyamoto, M., **419**, 19

Nastiuk, K.L., see Zadina, J.E., **409**, 10

Nasution, I.D. and Shigenaga, Y. Ascending and descending internuclear projections within the trigeminal sensory nuclear complex, **425**, 234

Natal, C.L. and Britto, L.R.G.

The pretectal nucleus of the optic tract modulates the direction selectivity of accessory optic neurons in rats, **419**, 320

Nathan, M.A., see Hubbard, J.W., **421**, 226

Nau, M.E., see Borke, R.C., **422**, 235

Navarro, H.A., Aloyo, V.J., Rush, M.E. and Walker, R.F. Serotonin pharmacodynamics in hypothalamic tissues from young and old female rats, **421**, 291

Nayar, U., see Rao, T.S., **435**, 7

Naylor, A.M., Gubitz, G.J., Dinarello, C.A. and Veale, W.L. Central effects of vasopressin and 1-desamino-8-D-arginine vasopressin (DDAVP) on interleukin-1 fever in the rat, **401**, 173

Neafsey, E.J., see Kosinski, R.J., **406**, 302

Neal, J.W., Pearson, R.C.A. and Powell, T.P.S.

The cortico-cortical connections of area 7b, PF, in the parietal lobe of the monkey, **419**, 341

Neal, J.W., see Pearson, R.C.A., **400**, 127

Neal, J.W., see Pearson, R.C.A., **412**, 352

Neale, E.A., see Guthrie, P.B., **420**, 313

Neale, J.H., see Anderson, K.J., **411**, 172

Neale, J.H., see Bliss Tieman, S., **420**, 188

Neale, J.H., see Kowalski, M.M., **406**, 397

Neale, R.F., see Martin, L.L., **419**, 239

Neary, D., see Sims, N.R., **436**, 30

Neary, D., see Palmer, A.M., **414**, 365

Neary, J.T., Del Pilar Gutierrez, M., Norenberg, L.-O.B. and Norenberg, M.D.

Protein phosphorylation in primary astrocyte cultures treated with and without dibutyryl cyclic AMP, **410**, 164

Neary, J.T., Norenberg, L.-O.B., Del Pilar Gutierrez, M. and Norenberg, M.D.

Hyperammonemia causes altered protein phosphorylation in astrocytes, **437**, 161

Nedergaard, M.

Transient focal ischemia in hyperglycemic rats is associated with increased cerebral infarction, **408**, 79

Negoro, H., Uchide, K., Tadokoro, Y., Honda, K. and Higuchi, T.

Vaginal distension induces milk ejection-related burst of oxytocin neurones interacting with suckling stimuli in lactating rats, **404**, 371

Nehlig, A., Daval, J.-L., Pereira de Vasconcelos, A. and Boyet, S.

Caffeine-diazepam interaction and local cerebral glucose utilization in the conscious rat, **419**, 272

Neill, D.B., see Church, W.H., **412**, 397

Neilson, M., see Feasby, T.E., **419**, 97

Neitz, J., see Bronstein, D.M., **406**, 352

Nelson, B.J., see Barmack, N.H., **437**, 111

Nelson, D., see Keefe, D.L., **403**, 308

Nelson, J.L., see Chance, W.T., **416**, 228

Nelson, R.B., Friedman, D.P., O'Neil, J.B., Mishkin, M. and Routtenberg, A.

Gradients of protein kinase C substrate phosphorylation in primate visual system peak in visual memory storage areas, **416**, 387

Nelson, R.J. Activity of monkey primary somatosensory cortical neurons changes prior to active movement, **406**, 402

Nemeroff, C.B., see Deutch, A.Y., **417**, 350

Nenov, V., see Hirano, T., **400**, 171

Ness, T.J., Jones, S.L. and Gebhart, G.F.

Contribution of the site of heating to variability in the latency of the rat tail flick reflex, **426**, 169

Neumann, R., see Lees, G., **401**, 267

Neumeyer, J.L., see Campbell, A., **403**, 393

Neville, H.J. and Lawson, D. Attention to central and peripheral visual space in a movement detection task. III. Separate effects of auditory deprivation and acquisition of a visual language, **405**, 284

Neville, H.J. and Lawson, D.

Attention to central and peripheral visual space in a movement detection task: an event-related potential and behavioral study. I. Normal hearing adults, **405**, 253

Neville, H.J. and Lawson, D.

Attention to central and peripheral visual space in a movement detection task: an event-related potential and behavioral study. II. Congenitally deaf adults, **405**, 268

Newman, G.C., see Shibata, S., **426**, 332

Newman, J.D., see Harris, J.C., **410**, 353

Newton, B.W., Melvin, J.E. and Hamill, R.W.

Central neurotoxic effects of guanethidine: altered serotonin and enkephalin neurons within the area postrema, **404**, 151

Neyt, H.C., see Ruigt, G.S.F., **437**, 309

Ngeow, J.Y.F., see Simone, D.A., **418**, 201

Nicholson, C., see Okada, Y.C., **412**, 151

Nichtenhauser, R., see Sircar, R., **435**, 235

Nichtenhauser, R., see Zukin, S.R., **416**, 84

Nicol, S., see Sharp, B.M., **422**, 361

Nicoletti, F., Wroblewski, J.T., Alho, H., Eva, C., Fadda, E. and Costa, E.

Lesions of putative glutamatergic pathways potentiate the increase of inositol phospholipid hydrolysis elicited by excitatory amino acids, **436**, 103

Nicoll, R.A., see Malenka, R.C., **403**, 198

Nieoullon, A., see El Ganouni, S., **404**, 239

Niesen, C.E., see Baskys, A., **419**, 112

Nieto-Sampedro, M., see

Bridges, R.J., **415**, 163

Nieto-Sampedro, M., see Rosenblatt, D.E., **415**, 40

Nikolarakis, K., Pfeiffer, A.,

Stalla, G.K. and Herz, A. The role of CRF in the release of ACTH by opiate agonists and antagonists in rats, **421**, 373

Nilsson, G.E. and Tottmar, O. Effects of biogenic aldehydes and aldehyde dehydrogenase inhibitors on rat brain tryptophan hydroxylase activity in vitro, **409**, 374

Nilsson, G.E., Tottmar, O. and Wahlström, G.

Effects of aldehyde dehydrogenase inhibitors on hexobarbital sensitivity and neuroamine metabolism in rat brain, **409**, 265

Ninomiya, Y., Mizukoshi, T., Nishikawa, T. and Funakoshi, M.

Ion specificity of rat chorda tympani fibers to chemical and electrical tongue stimulations, **404**, 350

Nipwoda, M.T., see McDonough

- Jr., J.H., **435**, 123
- Nishi, R., see Willard, A.L., **422**, 163
- Nishi, S., see Yoshimura, M., **414**, 138
- Nishi, S., see Yoshimura, M., **419**, 383
- Nishi, S., see Yoshimura, M., **420**, 147
- Nishikawa, T., see Cudennec, A., **423**, 162
- Nishikawa, T., see Ninomiya, Y., **404**, 350
- Nishino, H., Ono, T., Muramoto, K., Fukuda, M. and Sasaki, K.
Neuronal activity in the ventral tegmental area (VTA) during motivated bar press feeding in the monkey, **413**, 302
- Nishino, H., Oomura, Y., Aou, S. and Lénárd, L.
Catecholaminergic mechanisms of feeding-related lateral hypothalamic activity in the monkey, **405**, 56
- Nishiye, H., see Obata, K., **404**, 169
- Niso, R., see Bissoli, R., **405**, 380
- Nixdorf, B. and Bischof, H.-J.
Ultrastructural effects of monocular deprivation in the neuropil of nucleus rotundus in the zebra finch: a quantitative electron microscopic study, **405**, 326
- Noble, R., see Maxwell, D.J., **408**, 308
- Noble, L.J. and Wrathall, J.R.
The blood-spinal cord barrier after injury: pattern of vascular events proximal and distal to a transection in the rat, **424**, 177
- Nock, B., see Fischette, C.T., **421**, 263
- Noguchi, T., see Nakagawa, Y., **408**, 57
- Nojyo, Y., see Tamamaki, N., **412**, 156
- Nojyo, Y., see Tamamaki, N., **437**, 387
- Nolan, W.F., see Donnelly, D.F., **407**, 195
- Nomoto, S., see Washio, H., **416**, 69
- Nomura, H., Shiosaka, S. and Tohyama, M.
Distribution of substance P-like immunoreactive structures in the brainstem of the adult human brain: an immunocytochemical study, **404**, 365
- Nomura, S., Duman, R.S. and Enna, S.J.
In vivo or in vitro exposure to imipramine reduces α_2 -adrenoceptor-mediated inhibition of cyclic AMP production in rat brain cerebral cortical slices, **410**, 195
- Nomura, S., see Uemura, Y., **416**, 200
- Nordström, Ö., Eliasz, M., Bartfai, T. and Gottfries, C.-G.
Increased affinity of choline acetyltransferase for choline in Alzheimer's disease: a steady-state kinetic study, **420**, 371
- Norenberg, L.-O.B., see Neary, J.T., **410**, 164
- Norenberg, L.-O.B., see Neary, J.T., **437**, 161
- Norenberg, M.D., see Neary, J.T., **410**, 164
- Norenberg, M.D., see Neary, J.T., **437**, 161
- Noret, E., see Rivot, J.P., **419**, 201
- Norton, J., see Low, W.C., **435**, 315
- Notrica, M.A., see Ault, B., **426**, 93
- Notter, M.F.D., see Kordower, J.H., **417**, 85
- Novas, M.L., see Pazo, J.H., **414**, 405
- Novelli, A., Lysko, P.G. and Henneberry, R.C.
Uptake of imipramine in neurons cultured from rat cerebellum, **411**, 291
- Nukina, I., Glavin, G.B. and LaBella, S.
Acute cold-restraint stress affects α_2 -adrenoceptors in specific brain regions of the rat, **401**, 30
- Numao, Y. and Gilbey, M.P.
Effects of aortic nerve stimulation on cervical sympathetic preganglionic neurones in the rat, **401**, 190
- Nunley, E.W., see Michaelis, M.L., **414**, 239
- Nunn, P.B., Seelig, M., Zagoren, J.C. and Spencer, P.S.
Stereospecific acute neurotoxicity of 'uncommon' plant amino acids linked to human motor-system diseases, **410**, 375
- Nurse, B., see Russell, V.A., **410**, 78
- Nutt, D.J. and Lister, R.G.
The effect of the imidazodiazepine Ro 15-4513 on the anticonvulsant effects of diazepam, sodium pentobarbital and ethanol, **413**, 193
- Núñez, A., García-Austt, E. and Buño Jr., W.
Intracellular θ -rhythm generation in identified hippocampal pyramids, **416**, 289
- O**
- Oades, R.D., Rivet, J.-M., Taghzouti, K., Kharouby, M., Simon, H. and Le Moal, M.
Catecholamines and conditioned blocking: effects of ventral tegmental, septal and frontal 6-hydroxydopamine lesions in rats, **406**, 136
- Oaklander, A.L., Miller, M.S. and Spencer, P.S.
Early changes in degenerating mouse sciatic nerve are associated with endothelial cells, **419**, 39
- Obata, Y., see Matsuzawa, T., **413**, 314
- Obata, K., see Shirao, T., **413**, 374
- Obata, K., Kojima, N., Nishiye, H., Inoue, H., Shirao, T., Fujita, S.C. and Uchizono, K.
Four synaptic vesicle-specific proteins: identification by monoclonal antibodies and distribution in the nervous tissue and the adrenal medulla, **404**, 169
- Oblin, A., Zivkovic, B. and Bartholini, G.
Selective antagonists of dopamine receptor subtypes differentially affect substance P levels in the striatum and substantia nigra, **421**, 387
- O'Byrne, K.T., Eltringham, L. and Summerlee, A.J.S.
Central inhibitory effects of relaxin on the milk ejection reflex of the rat depends upon the site of injection into the cerebroventricular system, **405**, 80
- O'Callaghan, J.P., see Miller, D.B., **415**, 371
- Oda, Y., see Murakami, F., **437**, 379
- Oda, W., see Inagaki, C., **419**, 375
- O'Donoghue, D.L., see Kartje-Tillotson, G., **415**, 172
- Oertel, W., see Millhorn, D.E., **410**, 179
- Oertel, W.H., see Kawai, Y., **409**, 371
- Oertel, W.H., see Milner, T.A., **411**, 46
- Ogata, J., see Yoshida, F., **412**, 1
- Ogata, N.
 γ -Aminobutyric acid (GABA) causes consistent depolarization of neurons in the guinea pig supraoptic nucleus due to an absence of GABA_B recognition sites, **403**, 225
- Ogawa, N., see Takayama, H., **436**, 291
- Ogita, K., see Yoneda, Y., **400**, 70
- Ogita, K., see Yoneda, Y., **406**, 24
- Ogita, K., see Ohgaki, T., **425**, 364
- Ogura, A., see Kudo, Y., **407**, 168
- Ohama, E., see Shimoji, K., **408**, 385
- Ohara, P.T., see Ma, W., **415**, 331
- Ohgaki, T., Meguri, H., Ogita, K. and Yoneda, Y.
Tetrodotoxin-insensitive central depression by grayanotoxin-III in mice, **425**, 364
- Ohkuma, S., see Kuriyama, K., **416**, 7
- Ohno, Y., see Akaike, A., **418**, 262
- Ohno, Y., see Sasa, M., **420**, 157
- Ohtsubo, K., see Hasegawa, A., **409**, 343
- Oinuma, M., see Terashima, T., **410**, 97
- Oinuma, M., see Terashima, T., **417**, 190
- Oka, H., see Yamamoto, T., **437**, 369
- Oka, Y., Satou, M. and Ueda, K.
Morphology and distribution of the motor neurons of the accessory nerve (nXI) in the Japanese toad: a cobaltic lysine study, **400**, 383
- Oka, Y., see Takei, K., **410**, 395
- Oka, Y., Takeuchi, H., Satou, M. and Ueda, K.
Morphology and distribution of the preganglionic parasympathetic neurons of the facial, glossopharyngeal and vagus nerves in the Japanese toad: a cobaltic lysine study, **400**, 389
- Okada, Y., see Sato, T., **424**, 333
- Okada, Y., see Tanimoto, M., **417**, 239
- Okada, E., see Terashima, T., **436**, 384

- Okada, Y.C., Lauritzen, M. and Nicholson, C.
Magnetic field associated with neural activities in an isolated cerebellum, **412**, 151
- Okamoto, K., see Mori-Okamoto, J., **401**, 60
- Okamoto, K., see Sekiguchi, M., **423**, 23
- Okamoto, K., see Sekiguchi, M., **437**, 402
- Oku, R., Satoh, M., Fujii, N., Otaka, A., Yajima, H. and Takagi, H.
Calcitonin gene-related peptide promotes mechanical nociception by potentiating release of substance P from the spinal dorsal horn in rats, **403**, 350
- Okun, F., see Gavish, M., **409**, 386
- Okuno, E., see Speciale, C., **436**, 18
- Okuya, S., Inenaga, K., Kaneko, T. and Yamashita, H.
Angiotensin II sensitive neurons in the supraoptic nucleus, subfornical organ and anteroventral third ventricle of rats in vitro, **402**, 58
- Okuya, S., see Yamashita, H., **416**, 364
- Okuyama, S., see Kamata, K., **421**, 353
- O'Leary, D.D.M., see Porter, L.L., **436**, 136
- O'Leary, S.M., see Atchison, W.D., **419**, 315
- Oliver, J.R., see Reiner, A., **426**, 149
- Olivier, A., see Avoli, M., **417**, 199
- Olivier, B., see Mos, J., **404**, 263
- Olmos, G., Aguilera, P., Tranque, P., Naftolin, F. and Garcia-Segura, L.M.
Estrogen-induced synaptic remodelling in adult rat brain is accompanied by the reorganization of neuronal membranes, **425**, 57
- Olmos, G., see Tranque, P.A., **406**, 348
- Olney, J.W., see Scallet, A.C., **407**, 390
- Olney, M.A., see Ault, B., **426**, 93
- Olpe, H.-R., see Berecek, K.H., **401**, 303
- Olpe, H.R., Heid, J., Bittiger, H. and Steinmann, M.W.
Substance P depresses neuronal activity in the rat olfactory bulb in vitro and in vivo: possible mediation via γ -aminobutyric acid release, **412**, 269
- Olshchowa, J.A., see Silverman, W.F., **412**, 375
- Olsen, R.W., Szamraj, O. and Houser, C.R.
[³H]AMPA binding to glutamate receptor subpopulations in rat brain, **402**, 243
- Olson, A.J., see Finklestein, S.P., **413**, 267
- Olson, L., see Granholm, A.-C., **423**, 71
- Olson, L., see Sundström, E., **405**, 26
- Oltmans, G.A., Moss, L.E., Lorden, J.F. and Beales, M.
Acute and chronic effects of climbing fiber lesions on cerebellar cyclic guanosine monophosphate, **437**, 183
- Oltmans, G.A., see Sukin, D., **426**, 82
- Olton, D.S., Meck, W.H. and Church, R.M.
Separation of hippocampal and amygdaloid involvement in temporal memory dysfunctions, **404**, 180
- O'Malley, C.A., Hautamaki, R.D., Kelley, M. and Meyer, E.M.
Effects of ovariectomy and estradiol benzoate on high affinity choline uptake, ACh synthesis, and release from rat cerebral cortical synaptosomes, **403**, 389
- Onaka, T., see Shibuki, K., **410**, 140
- O'Neil, J.B., see Nelson, R.B., **416**, 387
- O'Neil, K.A. and Liebman, J.M.
Unique behavioral effects of the NMDA antagonist, CPP, upon injection into the medial pre-frontal cortex of rats, **435**, 371
- Ong, J., see Kerr, D.I.B., **405**, 150
- Ongini, E., see Porceddu, M.L., **424**, 264
- Onimaru, H. and Homma, I.
Respiratory rhythm generator neurons in medulla of brainstem-spinal cord preparation from newborn rat, **403**, 380
- Ono, H., see Kaneko, T., **417**, 403
- Ono, K. and Wada, J.A.
Facilitation of premotor cortical seizure development by intranigral muscimol, **405**, 183
- Ono, K., Mori, K., Baba, H. and Wada, J.A.
A role of the striatum in premotor cortical seizure development, **435**, 84
- Ono, T., see Nishino, H., **413**, 302
- Onoda, N. and Fujita, S.C.
A monoclonal antibody specific for a subpopulation of retinal bipolar cells in the frog and other vertebrates, **416**, 359
- Onodera, H., Sato, G. and Kogure, K.
Quantitative autoradiographic analysis of muscarinic cholinergic and adenosine A₁ binding sites after transient forebrain ischemia in the gerbil, **415**, 309
- Onozuka, M., Kishii, K., Imai, S. and Ozono, S.
Modification of the Na⁺, K⁺-pump of glial cells within cobalt-induced epileptogenic cortex of rat, **420**, 259
- Onténiente, B., Simon, H., Taghzouti, K., Geffard, M., Le Moal, M. and Calas, A.
Dopamine-GABA interactions in the nucleus accumbens and lateral septum of the rat, **421**, 391
- Oomura, Y., see Katafuchi, T., **400**, 62
- Oomura, Y., see Nishino, H., **405**, 56
- Oomura, Y., see Shimizu, N., **416**, 153
- Oparil, S., see Chen, Y.-F., **400**, 225
- Oparil, S., see Chen, Y.-F., **413**, 15
- Opřálová, Z., see Fatranská, M., **424**, 109
- Orchard, I., see Pannabecker, T., **423**, 13
- Orchard, I. and Lange, A.B.
The release of octopamine and proctolin from an insect visceral muscle: effects of high-potassium saline and neural stimulation, **413**, 251
- O'Regan, M.H. and Phillis, J.W.
Pertussis toxin blocks the inhibitory effect of adenosine on rat cerebral cortical neurons, **436**, 380
- O'Regan, M.H., see Phillis, J.W., **416**, 171
- Ornberg, R., see Lad, R.P., **423**, 237
- Oropeza, R.L., Wekerle, H. and Werb, Z.
Expression of apolipoprotein E by mouse brain astrocytes and its modulation by interferon- γ , **410**, 45
- Orrego, F., see Berdichevsky, E., **423**, 213
- Ortl, E., see Moses, D.F., **408**, 118
- Ory-Lavollée, L., see Blakely, R.D., **402**, 373
- Ory-Lavollée, L., see Rivot, J.P., **419**, 201
- Orzi, F., Passarelli, F., Diana, G. and Fieschi, C.
Effects of single and repeated electroconvulsive shock on local cerebral glucose utilization in the conscious rat, **423**, 144
- Osada, H., see Ando, S., **405**, 371
- Osaka, T., see Inenaga, K., **424**, 126
- Osaka, T., see Kannan, H., **409**, 358
- Osborne, N.N., see Cutcliffe, N., **421**, 95
- Osborne, P.G., Denton, D.A. and Weisinger, R.S.
Inhibition of dehydration induced drinking in rats by reduction of CSF Na concentration, **412**, 36
- Osborne, P.G., see Weisinger, R.S., **420**, 135
- Osipchuk, Y.V., see Krishtal, O.A., **436**, 352
- Osmanović, S.S. and Shefner, S.A.
Anomalous rectification in rat locus coeruleus neurons, **417**, 161
- Ossenkopp, K.-P. and Kavaliers, M.
Morphine-induced analgesia and exposure to low-intensity 60-Hz magnetic fields: inhibition of nocturnal analgesia in mice is a function of magnetic field intensity, **418**, 356
- Ossowska, K., see Wardas, J., **408**, 363
- O'Steen, W.K., Sweatt, A.J. and Brodish, A.
Effects of acute and chronic stress on the neural retina of young, mid-age, and aged Fischer-344 rats, **426**, 37
- Osterburg, H.H., Telford, N.A., Morgan, D.G., Cohen-Becker, I., Wise, P.M. and Finch, C.E.
Hypothalamic monoamines and their catabolites in relation to the estradiol-induced luteinizing hormone surge, **409**, 31

- Ostrowski, N.L., Burke Jr., T.R., Rice, K.C., Pert, A. and Pert, C.B. The pattern of [3 H]cyclofoxy retention in rat brain after in vivo injection corresponds to the in vitro opiate receptor distribution, **402**, 275
- Ostrowski, N.L., Hill, J.M., Pert, C.B. and Pert, A. Autoradiographic visualization of sex differences in the pattern and density of opiate receptors in hamster hypothalamus, **421**, 1
- Oswald, T. and Riley, D.A. Peripheral nerve carbonic anhydrase activity and chronic acetazolamide treatment of rats, **406**, 379
- Ota, Z., see Takayama, H., **436**, 291
- Otaka, A., see Oku, R., **403**, 350
- Otani, K., see Yoshida, A., **416**, 393
- Otani, S., see Morimoto, K., **407**, 137
- Otemaa, J., see Bracha, H.S., **411**, 231
- Otsuki, T., see Inase, M., **426**, 205
- Ottersen, O.P., see Kosaka, K., **403**, 355
- Owens, E., see Tsubaki, S.I., **424**, 71
- Owman, C., see Sahlin, C., **403**, 313
- Oya, M., see Inui, A., **417**, 355
- Oyama, Y. Actions of convulsants, 4-aminopyridine and pentylenetetrazole, on the transient outward current of single isolated nodose ganglion neurons, **409**, 243
- Oyama, Y. Some membrane characteristics of single isolated nodose ganglion cells studied under current and voltage clamp conditions, **410**, 61
- Oyama, Y., Hori, N., Tokutomi, N. and Akaike, N. D-600 blocks open Ca^{2+} channels more profoundly than closed ones, **417**, 143
- Oyama, Y., Tsuda, Y., Sakakibara, S. and Akaike, N. Synthetic ω -conotoxin: a potent calcium channel blocking neurotoxin, **424**, 58
- Oyanagi, K., Takahashi, H., Wakabayashi, K. and Ikuta, F. Selective involvement of large neurons in the neostriatum of Alzheimer's disease and senile dementia: a morphometric investigation, **411**, 205
- Oyster, C.W., Takahashi, E.S., Fry, K.R. and Lam, D.M.-K. Ganglion cell density in albino and pigmented rabbit retinas labeled with a ganglion cell-specific monoclonal antibody, **425**, 25
- Ozaki, H.S., Murakami, T.H., Toyoshima, T. and Shimada, M. The fibers which leave the Probst's longitudinal bundle seen in the brain of an algal mouse: a study with the horseradish peroxidase technique, **400**, 239
- Ozono, S., see Onozuka, M., **420**, 259
- P**
- Pacitti, C., see Scarnati, E., **423**, 116
- Paden, C.M., Krall, S. and Lynch, W.C. Heterogeneous distribution and upregulation of μ , δ and κ opioid receptors in the amygdala, **418**, 349
- Palacios, J.M., Hoyer, D. and Cortés, R. α_1 -Adrenoceptors in the mammalian brain: similar pharmacology but different distribution in rodents and primates, **419**, 65
- Palacios, J.M., see Reubi, J.C., **406**, 391
- Palacios-Salas, P., see Calvo, J.M., **403**, 22
- Paladino, T., see Beesley, P.W., **408**, 65
- Palkovits, M., Mezey, E. and Eskay, R.L. Pro-opiomelanocortin-derived peptides (ACTH/ β -endorphin/ α -MSH) in brainstem baroreceptor areas of the rat, **436**, 323
- Palkovits, M., see Kiss, A., **416**, 129
- Palm, A., see Hydén, H., **404**, 405
- Palmer, A.M., Francis, P.T., Bowen, D.M., Benton, J.S., Neary, D., Mann, D.M.A. and Snowden, J.S. Catecholaminergic neurones assessed ante-mortem in Alzheimer's disease, **414**, 365
- Palmer, A.M., Wilcock, G.K., Esiri, M.M., Francis, P.T. and Bowen, D.M. Monoaminergic innervation of the frontal and temporal lobes in Alzheimer's disease, **401**, 231
- Palmer, M.R., see Granholm, A.-C., **423**, 71
- Pan-Hou, H. and Suda, Y. Molecular action mechanism of spider toxin on glutamate receptor: role of 2,4-dihydroxyphenylacetic acid in toxin molecule, **418**, 198
- Panerai, A.E., Rovati, L.C., Cocco, E., Sacerdote, P. and Mantegazza, P. Dissociation of tolerance and dependence to morphine: a possible role for cholecystokinin, **410**, 52
- Pang, K. and Rose, G.M. Differential effects of norepinephrine on hippocampal complex-spike and θ -neurons, **425**, 146
- Panhuber, H., see Bell, G.A., **426**, 8
- Pannabecker, T. and Orchard, I. Regulation of adipokinetic hormone release from locust neuroendocrine tissue: participation of calcium and cyclic AMP, **423**, 13
- Pant, H.C., see Fong, C.N., **436**, 229
- Pant, H.C., see Shah, J., **419**, 1
- Panzica, G.C., Viglietti-Panzica, C., Calacagni, M., Anselmetti, G.C., Schumacher, M. and Balthazart, J. Sexual differentiation and hormonal control of the sexually dimorphic medial preoptic nucleus in the quail, **416**, 59
- Papadopoulos, G.C., Parnavelas, J.G. and Cavanagh, M.E. Extensive co-existence of neuropeptides in the rat visual cortex, **420**, 95
- Pappolla, M., Penton, R., Weiss, H.S., Miller Jr., C.H., Sahenk, Z., Autilio-Gambetti, L. and Gambetti, P. Carbon disulfide axonopathy. Another experimental model characterized by acceleration of neurofilament transport and distinct changes of axonal size, **424**, 272
- Pardridge, W.M., see Duffy, K.R., **420**, 32
- Paré, D., see Steriade, M., **408**, 372
- Parent, A., see Boegman, R.J., **415**, 178
- Parent, A. and Smith, Y. Differential dopaminergic innervation of the two pallidal segments in the squirrel monkey (*Saimiri sciureus*), **426**, 397
- Parent, A. and Smith, Y. Organization of efferent projections of the subthalamic nucleus in the squirrel monkey as revealed by retrograde labeling methods, **436**, 296
- Parent, A., see Steriade, M., **408**, 372
- Parizon, M., see Barraco, R.A., **424**, 17
- Park, D., see De Blas, A.L., **413**, 275
- Park, D.H., see Milner, T.A., **411**, 28
- Park, D.H., see Milner, T.A., **411**, 46
- Park, M.R. Intracellular horseradish peroxidase labeling of rapidly firing dorsal raphe projection neurons, **402**, 117
- Park, O.-K. and Ramirez, V.D. Pregnanolone, a metabolite of progesterone, stimulates LH-RH release: in vitro and in vivo studies, **437**, 245
- Parmeggiani, P.L., Cevolani, D., Azzaroni, A. and Ferrari, G. Thermosensitivity of anterior hypothalamic-preoptic neurons during the waking-sleeping cycle: a study in brain functional states, **415**, 79
- Parnavelas, J.G., see Papadopoulos, G.C., **420**, 95
- Parsons, D.S., see Harrell, L.E., **408**, 131
- Passarelli, F., see Orzi, F., **423**, 144
- Passatore, M., see Grassi, C., **435**, 15
- Pasteels, B., Miki, N., Hatakenaka, S. and Pochet, R. Immunohistochemical cross-reactivity and electrophoretic comigration between calbindin D-27 kDa and visinin, **412**, 107
- Pastel, R.H. and Fernstrom, J.D. Short-term effects of fluoxetine and trifluoromethylphenylpiperazine on

- electroencephalographic sleep in the rat, **436**, 92
- Patacchini, R., see Maggi, C.A., **436**, 402
- Patel, A.J., Hayashi, M. and Hunt, A. Selective persistent reduction in choline acetyltransferase activity in basal forebrain of the rat after thyroid deficiency during early life, **422**, 182
- Patel, J., see Klein, E., **407**, 312
- Patel, K.P., see Wilkin, L.D., **423**, 369
- Patrini, C., see Rindi, G., **413**, 23
- Paturle, L., Fage, D., Fourrier, O., Vernier, P., Feuerstein, C., Demenge, P. and Scatton, B. Cortical ablation fails to influence striatal dopamine target cell supersensitivity induced by nigrostriatal denervation in the rat, **402**, 383
- Pau, A., see Cossu, M., **415**, 399
- Paul, S.M., see Caspers, M.L., **409**, 335
- Paul, S.M., see Miller, L.G., **414**, 395
- Paul, S.M., see Schwartz, R.D., **411**, 151
- Paula-Barbosa, M., Tavares, M.A. and Cadete-Leite, A. A quantitative study of frontal cortex dendritic microtubules in patients with Alzheimer's disease, **417**, 139
- Paule, M.G., see Scallet, A.C., **436**, 193
- Pavey, G.M., see Willis, G.L., **403**, 15
- Pavlices, C., Aoki, C., Chen, J.-S., Bailey, W.H. and Winson, J. Differential glucose utilization in the parafascicular region during slow-wave sleep, the still-alert state and locomotion, **423**, 399
- Pavlik, A., see Vaněček, J., **435**, 359
- Paxinos, G., see McKinley, M.J., **420**, 375
- Paz, C. and Reygadas, E. Red nucleus lesions delay the evolution of amygdala kindling in cats, **422**, 99
- Pazara, K.E., see Caspary, D.M., **417**, 273
- Pazo, J.H., Levi de Stein, M., Jerusalinsky, D., Novas, M.L., Raskovsky, S., Tumilasci, O.R., Medina, J.H. and Robertis, E.D. Selective increase of α_1 -adrenoceptors and muscarinic cholinergic receptors in rat cerebral cortex after chronic haloperidol, **414**, 405
- Peagler, A., see Harrell, L.E., **408**, 131
- Pearce, B., see Jeremy, J., **419**, 364
- Pearson, J., see Sakamoto, N., **403**, 31
- Pearson, R.C.A., Neal, J.W. and Powell, T.P.S. Bilateral morphological changes in the substantia nigra of the rat following unilateral damage of the striatum, **400**, 127
- Pearson, R.C.A., Neal, J.W. and Powell, T.P.S. Increase in immunohistochemical staining of GABAergic axons in the superior colliculus and thalamus of the rat following damage of the ipsilateral striatum and frontal cortex, **412**, 352
- Pearson, R.C.A., see Neal, J.W., **419**, 341
- Pearson, R.C.A., see Sofroniew, M.V., **411**, 310
- Pearson, R.C.A., Sofroniew, M.V. and Powell, T.P.S. The cholinergic nuclei of the basal forebrain of the rat: hypertrophy following contralateral cortical damage or section of the corpus callosum, **411**, 332
- Peck, C.K. Saccade-related burst neurons in cat superior colliculus, **408**, 329
- Peck, C.K. Visual-auditory interactions in cat superior colliculus: their role in the control of gaze, **420**, 162
- Pedder, S.C.J., Wilcox, R., Tuckek, J.M., Crawford, R.D. and Johnson, D.D. Benzodiazepine antagonist Ro 15-1788 (flumazepil) attenuates the anticonvulsant activity of diazepam in epileptic fowl, **424**, 139
- Pedersen, P.E., see Stewart, W.B., **411**, 248
- Peets, J.M. and Pomeranz, B. Studies in suppression of nocifensive reflexes measured with tail flick electromyograms and using intrathecal drugs in barbiturate anesthetized rats, **416**, 301
- Peinado, A., Macagno, E.R. and Zipser, B. A group of related surface glycoproteins distinguish sets and subsets of sensory afferents in the leech nervous system, **410**, 335
- Peinado, A., Zipser, B. and Macagno, E.R. Regeneration of afferent axons into discrete tracts within peripheral nerves in the leech, **410**, 330
- Pellegrini-Giampietro, D.E., see Lombardi, G., **411**, 275
- Pelletier, G., Guy, J., Désy, L., Li, S., Eberle, A.N. and Vaudry, H. Melanin-concentrating hormone (MCH) is colocalized with α -melanocyte-stimulating hormone (α -MSH) in the rat but not in the human hypothalamus, **423**, 247
- Pelletier, G., see Delbende, C., **423**, 203
- Pellionisz, A.J., see Daunicht, W.J., **435**, 48
- Pellmar, T.C., see Tolliver, J.M., **404**, 133
- Peng, Z.-C., see Su, H.-S., **409**, 367
- Penit-Soria, J., Audinat, E. and Crepel, F. Excitation of rat prefrontal cortical neurons by dopamine: an in vitro electrophysiological study, **425**, 263
- Penny, G.R., see Chang, H.T., **426**, 197
- Penton, R., see Pappolla, M., **424**, 272
- Penzlin, H., see Holets, V.R., **408**, 141
- Pepeu, G., see Corradetti, R., **411**, 196
- Pereira, A.B., see Carpenter, M.B., **408**, 275
- Pereira, A.B., see Carpenter, M.B., **418**, 403
- Pereira de Vasconcelos, A., see Nehlig, A., **419**, 272
- Perez-Polo, J.R., see Bostwick, J.R., **422**, 92
- Perez-Polo, J.R., see Hulsebosch, C.E., **411**, 267
- Perlow, M.J., Kokoris, G., Gibson, M.J., Silverman, A.J., Kreiger, D.T. and Zimmerman, E.A. Accessory olfactory bulb transplants correct hypogonadism in mutant mice, **415**, 158
- Perouansky, M., see Grantyn, R., **420**, 182
- Peroutka, S.J., see Davies, M.F., **423**, 347
- Peroutka, S.J., see Huang, J.C., **436**, 173
- Perreault, P., see Avoli, M., **400**, 191
- Perrone-Bizzozero, N.I., see Finklestein, S.P., **413**, 267
- Perry, G., Friedman, R., Hui Kang, D., Manetto, V., Autilio-Gambetti, L. and Gambetti, P. Antibodies to the neuronal cytoskeleton are elicited by Alzheimer paired helical filament fractions, **420**, 233
- Perry, G., see Galloway, P.G., **403**, 337
- Perry, G.W., Krayanek, S.R. and Wilson, D.L. Effects of a conditioning lesion on bullfrog sciatic nerve regeneration: analysis of fast axonally transported proteins, **423**, 1
- Perry, G.W., see Antonian, E., **400**, 403
- Pert, A., see Ostrowski, N.L., **421**, 1
- Pert, A., see Ostrowski, N.L., **402**, 275
- Pert, C.B., see Ostrowski, N.L., **402**, 275
- Pert, C.B., see Ostrowski, N.L., **421**, 1
- Pertovaara, A., Huopaniemi, T., Carlson, S. and Jyväsjärvi, E. Response characteristics of tooth pulp-driven postsynaptic neurons in the spinal trigeminal subnucleus interpolaris of the cat: comparison with primary afferent fiber, subnucleus caudalis, reflex, and sensory responses, **422**, 205
- Peschanski, M., see Ma, W., **414**, 187
- Pestronk, A. and Drachman, D.B. Mechanism of action of lithium on acetylcholine receptor metabolism in skeletal muscle, **412**, 302
- Peters, L.C., Kristal, M.B. and Komisaruk, B.R. Sensory innervation of the external and internal genitalia of the female rat, **408**, 199

- Peters, S. and Choi, D.W.
Quinolinic acid is a weak excitant of cortical neurons in cell culture, **420**, 1
- Petersen, S.L., see Burri, R., **416**, 267
- Peterson, B., see Baker, J., **408**, 339
- Peterson, N.J., see Tilson, H.A., **408**, 163
- Petrillo, P., see Esposito, E., **436**, 25
- Petroni, A., Borghi, A., Blasevich, M., Grossi, P., Bertazzo, A. and Galli, C.
Effects of hypoxia and recovery on brain eicosanoids and carbohydrate metabolites in rat brain cortex, **415**, 226
- Petrosini, L. and Gremoli, T.
Spontaneous eye motility following a unilateral vestibular lesion, **418**, 398
- Petrusz, P., see Merchenthaler, I., **416**, 219
- Petschke, F., see Mondadori, C., **435**, 310
- Pettorossi, V.E., Errico, P., Ferraresi, A. and Fedeli, R.
Vestibular contribution to the orientation of cervico-ocular reflex in rabbit, **403**, 58
- Pezalla, P.D., see Stevens, C.W., **402**, 201
- Pfaff, D.W., see Cohen, M.S., **401**, 103
- Pfaff, D.W., see Cohen, M.S., **405**, 155
- Pfaff, D.W., see Cottingham, S.L., **421**, 397
- Pfaff, D.W., see Kow, L.-M., **413**, 220
- Pfeiffer, A., see Nikolarakis, K., **421**, 373
- Phelps, C.J.
Isolated deficiency of tyrosine hydroxylase immunoreactivity in tuberoinfundibular neurons in pituitary prolactin-deficient Snell dwarf mice, **416**, 354
- Phelps, C.J., Collier, T.J. and Bartke, A.
Effect of chronic hyperprolactinemia on tuberoinfundibular dopaminergic neurons: histofluorescence in aged and in diethylstilbestrol-treated male rats, **411**, 108
- Philipp, E. and Pirke, K.-M.
Effect of starvation on hypothalamic tyrosine hydroxylase activity in adult male rats, **413**, 53
- Phillips, A.G., Jakubovic, A. and Fibiger, H.C.
Increased in vivo tyrosine hydroxylase activity in rat telencephalon produced by self-stimulation of the ventral tegmental area, **402**, 109
- Phillips, M.I., see Hermann, K., **437**, 205
- Phillis, J.W., O'Regan, M.H. and Stair, R.E.
Adenosine potentiation and antagonism may account for the diverse behavioral actions of Ro 5-4864, **416**, 171
- Phillis, J.W., see O'Regan, M.H., **436**, 380
- Piazza, P.V., Ferdico, M., Crescimanno, G., Benigno, A. and Amato, G.
Inhibitory effect of the ventral tegmental A10 region on the hypothalamic defence reaction: evidence for a possible dopaminergic mediation, **413**, 356
- Pich, E.M., Benfenati, F., Farabegoli, C., Fuxe, K., Meller, E., Aronsson, M., Goldstein, M. and Agnati, L.F.
Chronic haloperidol affects striatal D₂-dopamine receptor reappearance after irreversible receptor blockade, **435**, 147
- Pickard, G.E.
Circadian rhythm of nociception in the golden hamster, **425**, 395
- Pickel, V.M., see Aoki, C., **437**, 264
- Pickel, V.M., see Hervé, D., **435**, 71
- Pickel, V.M., see Milner, T.A., **411**, 28
- Pickel, V.M., see Milner, T.A., **411**, 46
- Pico, R.M., see Davis, J.L., **406**, 10
- Pierce, M.E. and Besharse, J.C.
Melatonin and rhythmic photoreceptor metabolism: melatonin-induced cone elongation is blocked at high light intensity, **405**, 400
- Piercey, M.F., Vogelsang, G.D., Franklin, S.R. and Tang, A.H.
Reversal of scopolamine-induced amnesia and alterations in energy metabolism by the nootropic piracetam: implications regarding identification of brain structures involved in consolidation of memory traces, **424**, 1
- Pignatiello, M.F., see Zadina, J.E., **409**, 10
- Pike, G.K. and Kerr, D.I.B.
The influence of temperature upon depolarizing responses of rat isolated vagal nerve to 5-hydroxytryptamine, **413**, 388
- Pilgrim, C., see Duncan, G.E., **401**, 43
- Pilowsky, P.M., Morris, M.J., Minson, J.B., West, M.J., Chalmers, J.P., Willoughby, J.O. and Blessing, W.W.
Inhibition of vasodepressor neurons in the caudal ventrolateral medulla of the rabbit increases both arterial pressure and the release of neuropeptide Y-like immunoreactivity from the spinal cord, **420**, 380
- Pin, J.-P., Rumigny, J.-F., Bockaert, J. and Recasens, M.
Multiple Cl⁻-independent binding sites for the excitatory amino acids: glutamate, aspartate and cysteine sulfinic acid in rat brain membranes, **402**, 11
- Pin, T. and Gola, M.
Decreased resting membrane conductance as the proximate cause of burst modulation by an identified interneuron in *Helix*, **412**, 165
- Pinter, M., see Alstermark, B., **404**, 382
- Pinter, M., see Alstermark, B., **404**, 389
- Pinter, M., see Alstermark, B., **404**, 395
- Pirke, K.-M., see Philipp, E., **413**, 53
- Pitkänen, A., Jolkkonen, J. and Riekkinen, P.J.
Somatostatin-like immunoreactivity (SLI) in cisternal cerebrospinal fluid of rats kindled by pentylenetetrazol, **416**, 180
- Pitler, T.A. and Landfield, P.W.
Probable Ca²⁺-mediated inactivation of Ca²⁺ currents in mammalian brain neurons, **410**, 147
- Pittam, B.S., Burnstock, G. and Purves, R.D.
Urinary bladder intramural neurones: an electrophysiological study utilizing a tissue culture preparation, **403**, 267
- Pittaway, K., see Fine, A., **406**, 326
- Pittman, Q.J., see Burnard, D.M., **422**, 11
- Pittman, Q.J., see Siggins, G.R., **414**, 22
- Pivik, R.T., Bylsma, F.W. and Cooper, P.M.
Variations in nuchal muscle tonus following paradoxical sleep deprivation in the rabbit, **423**, 196
- Planté, J.F., Schipper, J., Verheijden, P.F.H.M. and Stoof, J.C.
D₂-dopamine receptors regulate the release of [³H]dopamine in rat basal hypothalamus and neurointermediate lobe of the pituitary gland, **413**, 205
- Plata-Salamán, C.R., see Shimizu, N., **416**, 153
- Pleasure, D., see Yasuda, T., **436**, 113
- Pleasure, D.E., see Rostami, A., **425**, 205
- Pleet, A.B., see Fishman, R.H.B., **410**, 343
- Plenderleith, M.B., see Tattersall, J.E.H., **416**, 337
- Plunkett, L.M., Shigematsu, K., Kurihara, M. and Saavedra, J.M.
Localization of angiotensin II receptors along the anteroventral third ventricle area of the rat brain, **405**, 205
- Pochet, R., see Pasteels, B., **412**, 107
- Pohle, W., Acosta, L., Rüthrich, H., Krug, M. and Matthies, H.
Incorporation of [³H]fucose in rat hippocampal structures after conditioning by perforant path stimulation and after LTP-producing tetanization, **410**, 245
- Pohorecki, R., French, J. and Domino, E.F.
Extracellular calcium alters frequency modulation of [³H]acetylcholine release from rat hippocampal slices, **420**, 199
- Polak, J.M., see Kuwayama, Y., **405**, 220
- Poletti, C.E., see Edwards, D.L., **437**, 197

- Pollock, J.D. and Camardo, J.S.
Regulation of single potassium channels by serotonin in the cell bodies of the tail mechanosensory neurons of *Aplysia californica*, **410**, 367
- Polosa, C., see Bachoo, M., **400**, 377
- Polosa, C., see Yoshimura, M., **414**, 138
- Polosa, C., see Yoshimura, M., **419**, 383
- Polosa, C., see Yoshimura, M., **420**, 147
- Pomeranz, B., see Markus, H., **416**, 315
- Pomeranz, B., see McDevitt, L., **416**, 308
- Pomeranz, B., see Peets, J.M., **416**, 301
- Pompeiano, O., see Fung, S.J., **402**, 351
- Ponnudurai, R., see Wu, W.-H., **401**, 407
- Popejoy, S., see Cach, R., **414**, 1
- Popejoy, S., see Topple, A., **406**, 308
- Porceddu, M.L., De Montis, G., Mele, S., Ongini, E. and Biggio, G.
D₁ dopamine receptors in the rat retina: effect of dark adaptation and chronic blockade by SCH 23390, **424**, 264
- Porreca, F., see Heyman, J.S., **420**, 100
- Porro, C.A., see Biral, G.P., **412**, 43
- Porter, L.H.
An experimental investigation of the parietal lobes and temperature discrimination in monkeys, **412**, 54
- Porter, L.L., Cedarbaum, J.M., O'Leary, D.D.M., Stanfield, B.B. and Asanuma, H.
The physiological identification of pyramidal tract neurons within transplants in the rostral cortex taken from the occipital cortex during development, **436**, 136
- Porter, L.L., see Sakamoto, T., **413**, 360
- Porter, T.G., see Spink, D.C., **421**, 235
- Post, C.A., see Miceli, M.O., **402**, 318
- Post, C.A., see Miceli, M.O., **412**, 381
- Pott, C.B., see Wu, W.-H., **401**, 407
- Potter, P.E., see Hörtnagl, H., **421**, 75
- Potter, W.Z., see Aiso, M., **408**, 281
- Potter, W.Z., see Aiso, M., **426**, 392
- Poulain, B., Fossier, P., Baux, G. and Tauc, L.
Hemicholinium-3 facilitates the release of acetylcholine by acting on presynaptic nicotinic receptors at a central synapse in *Aplysia*, **435**, 63
- Poulain, B., see Meulemans, A., **414**, 158
- Poulakos, J., see Clarke, D., **421**, 358
- Powell, T.P.S., see Neal, J.W., **419**, 341
- Powell, T.P.S., see Pearson, R.C.A., **400**, 127
- Powell, T.P.S., see Pearson, R.C.A., **411**, 332
- Powell, T.P.S., see Pearson, R.C.A., **412**, 352
- Powell, T.P.S., see Sofroniew, M.V., **411**, 310
- Powers, R.E., DeSouza, E.B., Walker, L.C., Price, D.L., Vale, W.W. and Young III, W.S.
Corticotropin-releasing factor as a transmitter in the human olivocerebellar pathway, **415**, 347
- Prager, R.H., see Kerr, D.I.B., **405**, 150
- Prasad, C.
Neuropeptide-dopamine interactions. I. Dopaminergic mechanisms in cyclo(His-Pro)-mediated hypothermia in rats, **437**, 345
- Preisendorfer, U., Zeise, M.L. and Klee, M.R.
Valproate enhances inhibitory postsynaptic potentials in hippocampal neurons in vitro, **435**, 213
- Premi, B.K., see Gardiner, I.M., **407**, 263
- Prestwich, S.A., Forda, S.R. and Dolphin, A.C.
Adenosine antagonists increase spontaneous and evoked transmitter release from neuronal cells in culture, **405**, 130
- Prevost, L., see Guillemot, J.-P., **402**, 293
- Price, D.L., see DeSouza, E.B., **437**, 355
- Price, D.L., see Kellar, K.J., **436**, 62
- Price, D.L., see Kitt, C.A., **406**, 192
- Price, D.L., see Powers, R.E., **415**, 347
- Price, M., see Messer Jr., W.S., **407**, 46
- Prince, D.A., see Davies, M.F., **423**, 347
- Prince, D.A., see Deisz, R.A., **422**, 63
- Pritz, M.B. and Stritzel, M.E.
Percentage of intrinsic and relay cells in a thalamic nucleus projecting to general cortex in reptiles, *Caiman crocodilus*, **409**, 146
- Probst, A., see Reubi, J.C., **406**, 391
- Proctor, W.R. and Dunwiddie, T.V.
Pre- and postsynaptic actions of adenosine in the in vitro rat hippocampus, **426**, 187
- Proia, A., see Scarnati, E., **423**, 116
- Proske, U., see Gregory, J.E., **404**, 375
- Prospéro-García, O., see Arankowsky-Sandoval, G., **400**, 155
- Proudfit, H.K., see Sagen, J., **406**, 246
- Prusky, G.T., Shaw, C. and Cynader, M.S.
Nicotine receptors are located on lateral geniculate nucleus terminals in cat visual cortex, **412**, 131
- Przewłocka, B., see Lasoń, W., **403**, 301
- Przewłocki, R., see Lasoń, W., **403**, 301
- Przewłocki, R., Lasoń, W., Höllt, V., Silberring, J. and Herz, A.
The influence of chronic stress on multiple opioid peptide systems in the rat: pronounced effects upon dynorphin in spinal cord, **413**, 213
- Ptito, M., see Guillemot, J.-P., **402**, 293
- Publicover, S.J., see Sahaf, Z.Y., **437**, 397
- Pujol, J.-F., see Gillon, J.-Y., **418**, 157
- Pujol, J.-F., see Quintin, L., **425**, 319
- Pujol, R., see Eybalin, M., **421**, 336
- Pumain, R., see Avoli, M., **417**, 199
- Punnen, S., Urbanski, R., Krieger, A.J. and Sapru, H.N.
Ventrolateral medullary pressor area: site of hypotensive action of clonidine, **422**, 336
- Puro, D.G., see Fukuda, M., **414**, 177
- Purves, R.D., see Pittam, B.S., **403**, 267
- Purvis, R., see Topple, A., **406**, 308
- Puthuraya, K.P., see Katafuchi, T., **400**, 62
- Putterman, G.J., see Simone, D.A., **418**, 201
- Pylypiw, A., see Levitt, P., **418**, 174
- ## Q
- Quintin, L., Gillon, J.-Y., Ghignone, M., Renaud, B. and Pujol, J.-F.
Baroreflex-linked variations of catecholamine metabolism in the caudal ventrolateral medulla: an in vivo electrochemical study, **425**, 319
- Quintin, L., see Gillon, J.-Y., **418**, 157
- Quirion, R., see Martel, J.-C., **419**, 403
- Quirion, R., see Jenck, F., **423**, 39
- Quirk, G.J., see Collier, T.J., **409**, 316
- Quirk, W.S., see Wright, J.W., **420**, 289
- ## R
- Rabey, J.M., see Gilad, G.M., **436**, 311
- Rabié, A., see Rami, A., **422**, 149
- Racine, R.J., see De Jonge, M., **412**, 318
- Racké, K., Altes, U., Baur, A.-M., Jost, D. and Schäfer, J.
Tetraethylammonium ions and 4-aminopyridine prevent opioid inhibition of neurohypophysial oxytocin release, **436**, 371
- Radhakishun, F.S., Stoof, J.C., Mulder, A.H., Versteeg, D.H.G. and Van Ree, J.M.
The neuroleptic-like peptide des enkephalin- γ -endorphin does not antagonize the dopamine receptor agonist-induced inhibition of the

- release of [^3H]dopamine from rat nucleus accumbens slices in vitro, **426**, 235
- Radulovacki, M., see Vern, B.A., **415**, 188
- Radulovacki, M., see Yanik, G., **402**, 362
- Radulovacki, M., see Yanik, G., **403**, 177
- Raigorodsky, G. and Urca, G. Intrathecal *N*-methyl-D-aspartate (NMDA) activates both nociceptive and antinociceptive systems, **422**, 158
- Raizada, M., see Stevens, B.R., **406**, 113
- Raizada, M.K., see Bottiglieri, D.F., **403**, 167
- Raizada, M.K., see Clarke, D., **421**, 358
- Raizada, M.K., see Hermann, K., **437**, 205
- Raizada, M.K., see Masters, B.A., **417**, 247
- Rakić, L., see Salimova, N.B., **400**, 285
- Ralston III, H.J., see Ma, W., **414**, 187
- Ram, J.L. and Dagan, D. Inactivating and non-inactivating outward current channels in cell-attached patches of *Helix* neurons, **405**, 16
- Ram, V.J., see Campbell, A., **403**, 393
- Ramaswamy, A., see Clarke, D., **421**, 358
- Rami, A., Bréhier, A., Thomasset, M. and Rabić, A. The comparative immunocytochemical distribution of 28 kDa cholecalciferin (CaBP) in the hippocampus of rat, guinea pig and hedgehog, **422**, 149
- Ramirez, J.J., Fass, B., Kilfoil, T., Henschel, B., Grones, W. and Karpiak, S.E. Ganglioside-induced enhancement of behavioral recovery after bilateral lesions of the entorhinal cortex, **414**, 85
- Ramirez, O.A. and Chiappinelli, V.A. Properties of tachykinin receptors examined by intracellular recording from chick sympathetic ganglia, **414**, 228
- Ramirez, R.D., see Batini, C., **403**, 186
- Ramirez, V.D., see Chang, G.D., **424**, 49
- Ramirez, V.D., see Dluzen, D.E., **406**, 1
- Ramirez, V.D., see Park, O.-K., **437**, 245
- Ramon, F., see Moreno, A.P., **400**, 181
- Randich, A., Aimone, L.D. and Gebhart, G.F. Medullary substrates of descending spinal inhibition activated by intravenous administration of [D-Ala^2]methionine enkephalinamide in the rat, **411**, 236
- Rao, G., Barnes, C.A. and McNaughton, B.L. Occlusion of hippocampal electrical junctions by intracellular calcium injection, **408**, 267
- Rao, P.P., see Cohen, H.L., **426**, 179
- Rao, T.S., Seth, S.D., Manchanda, S.C. and Nayar, U. The involvement of the sympathetic nervous system in the centrogenic pressor and tachycardiac effects of prostaglandins E_2 and $\text{F}_{2\alpha}$ in anaesthetised cats, **435**, 7
- Rapoport, S., see Wu, W.-H., **401**, 407
- Rapoport, S.I., see Horwitz, B., **407**, 294
- Rapoport, S.I., see Rechthand, E., **406**, 185
- Rappaport, M., see Sircar, R., **435**, 235
- Rascol, O., see Dutar, P., **418**, 98
- Raskovsky, S., see Pazo, J.H., **414**, 405
- Rasminsky, M. and Ricot, P.-J. Conduction properties of single nerve fibers in developing rat spinal nerve roots, **411**, 167
- Rastad, J., see Svensson, B.A., **423**, 229
- Ray, A., Henke, P.G. and Sullivan, R.M. The central amygdala and immobilization stress-induced gastric pathology in rats: neurotensin and dopamine, **409**, 398
- Rea, G.L., Ebner, T.J. and Bloedel, J.R. Evaluations of combined premotor and supplementary motor cortex lesions on a visually guided arm movement, **418**, 58
- Reader, T.A., see Diop, L., **402**, 403
- Rebec, G.V., see Kuhr, W.G., **418**, 122
- Rebillard, G., see Eybalin, M., **418**, 189
- Recasens, M., see Pin, J.-P., **402**, 11
- Rechthand, E., Murphy, V.A., Wadwhani, K. and Rapoport, S.I. Calcium in rat peripheral nerve during chronic alterations in plasma calcium, **406**, 185
- Redburn, D.A., see Chentanez, T., **424**, 115
- Reddy, V.K., see Fung, S.J., **401**, 347
- Redgrave, P., Mitchell, I.J. and Dean, P. Further evidence for segregated output channels from superior colliculus in rat: ipsilateral tecto-pontine and tecto-cuneiform projections have different cells of origin, **413**, 170
- Redmond Jr., D.E., see Collier, T.J., **436**, 363
- Redmond Jr., D.E., see Elsworth, J.D., **415**, 293
- Reggiani, A., Carenzi, A. and Dellabella, D. Influence of opioids on β -receptors down-regulation: studies in cultured C_6 glioma cells, **423**, 254
- Reggiani, C., see Rindi, G., **413**, 23
- Rehavi, M., Sepcuti, H. and Weizman, A. Upregulation of imipramine binding and serotonin uptake by estradiol in female rat brain, **410**, 135
- Rehfeld, J.F., see Bryld, E., **409**, 364
- Reid, A., see Sawynok, J., **419**, 156
- Reid, K.H., Marrannes, R., De Prins, E. and Wauquier, A. Strength-duration properties of cathodal pulses eliciting spreading depression in rat cerebral cortex, **404**, 361
- Reid, K.H., see Schurr, A., **421**, 135
- Reier, P.J., see Mickley, G.A., **424**, 239
- Reilly, W.M., see Schick, R.R., **418**, 20
- Reiner, A. and Oliver, J.R. Somatostatin and neuropeptide Y are almost exclusively found in the same neurons in the telencephalon of turtles, **426**, 149
- Reiner, A. A LANT6-like substance that is distinct from neuromedin N is present in pallidal and striatal neurons in monkeys, **422**, 186
- Reinikainen, K.J., Riekkinen, P.J., Jolkkonen, J., Kosma, V.-M. and Soininen, H. Decreased somatostatin-like immunoreactivity in cerebral cortex and cerebrospinal fluid in Alzheimer's disease, **402**, 103
- Reinoso-Suárez, F., see Martínez-Moreno, E., **407**, 17
- Reinoso-Suárez, F., see Satorre, J., **404**, 231
- Reis, D.J., see Arnerić, S.P., **411**, 212
- Reis, D.J., see Milner, T.A., **411**, 28
- Reis, D.J., see Milner, T.A., **411**, 46
- Reiser, G., Höpp, H.-P. and Hamprecht, B. Atrial natriuretic polypeptide hormones induce membrane potential responses in cultured rat glioma cells, **402**, 164
- Reiser, G., see Höpp, H.-P., **412**, 175
- Reiss, S.J., see Schurr, A., **421**, 135
- Reiter, R.J., see Vaughan, M.K., **417**, 321
- Reivich, M., see Kushner, M.J., **409**, 79
- Renaud, B., see Quintin, L., **425**, 319
- Reyes, E., see Martínez-Moreno, E., **407**, 17
- Renner, K., see Fischette, C.T., **421**, 263
- Reperant, J., Miceli, D., Rio, J.P. and Weidner, C. The primary optic system in a microphthalmic snake (*Calabaria reinhardtii*), **408**, 233
- Repérant, J., see Weidner, C., **419**, 357
- Repérant, J., see Weidner, C., **436**, 153
- Reppert, S.M., Henshaw, D., Schwartz, W.J. and Weaver, D.R. The circadian-gated timing of birth in rats: disruption by maternal SCN lesions or by removal of the fetal brain, **403**, 398

- Represa, A., Tremblay, E. and Ben-Ari, Y.
Aberrant growth of mossy fibers and enhanced kainic acid binding sites induced in rats by early hyperthyroidism, **423**, 325
- Reubi, J.C., Probst, A., Cortés, R. and Palacios, J.M.
Distinct topographical localisation of two somatostatin receptor subpopulations in the human cortex, **406**, 391
- Reuter, G., see Höpp, H.-P., **412**, 175
- Reygadas, E., see Paz, C., **422**, 99
- Reyneke, L., Russell, V.A. and Taljaard, J.J.F.
The modulatory effect of neurotensin on [³H]dopamine release from rat nucleus accumbens slices is enhanced after chronic desipramine treatment, **425**, 114
- Reynolds, G.P., see Fine, A., **406**, 326
- Reynolds, J.B., see Ebbesson, S.O.E., **405**, 175
- Rho, J.-H. and Swanson, L.W.
Neuroendocrine CRF motoneurons: intrahypothalamic axon terminals shown with a new retrograde-Lucifer-immuno method, **436**, 143
- Rhoades, R.W., see Sahibzada, N., **415**, 242
- Rhodes, K.J., Joyce, J.N., Sapp, D.W. and Marshall, J.F.
[³H]Hemicholinium-3 binding in rabbit striatum: correspondence with patchy acetylcholinesterase staining and a method for quantifying striatal compartments, **412**, 400
- Ribak, C.E. and Khan, S.U.
The effects of knife cuts of hippocampal pathways on epileptic activity in the seizure-sensitive gerbil, **418**, 146
- Ricaurte, G.A., Irwin, I., Forno, L.S., DeLanney, L.E., Langston, E. and Langston, J.W.
Aging and 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine-induced degeneration of dopaminergic neurons in the substantia nigra, **403**, 43
- Rice, K.C., see Ostrowski, N.L., **402**, 275
- Richardson Jr., E.P., see Ferrante, R.J., **411**, 162
- Richardson, P.M. and Verge, V.M.K.
Axonal regeneration in dorsal spinal roots is accelerated by peripheral axonal transection, **411**, 406
- Richer, L., see Guillemot, J.-P., **402**, 293
- Richerson, G.B. and Getting, P.A.
Maintenance of complex neural function during perfusion of the mammalian brain, **409**, 128
- Riches, I.P., see Brown, M.W., **409**, 158
- Richter, D.W., see Mifflin, S., **420**, 22
- Richter, J.A., see Kaseda, Y., **422**, 178
- Rico, I., see Sanchez-Ferrer, C.F., **411**, 304
- Ricot, P.-J., see Rasminsky, M., **411**, 167
- Rieck, R.W., see Carey, R.G., **424**, 205
- Riekkinen, P.J., see Pitkänen, A., **416**, 180
- Riekkinen, P.J., see Reinikainen, K.J., **402**, 103
- Rigor, B.M., see Schurr, A., **412**, 179
- Rigor, B.M., see Schurr, A., **421**, 135
- Rigsbee, L.C., see Bonhaus, D.W., **405**, 358
- Rijk, H., see Hagan, J.J., **410**, 69
- Riley, D.A., see Oswald, T., **406**, 379
- Rimvall, K., see Keller, F., **405**, 305
- Rindi, G., Comincioli, V., Reggiani, C. and Patrini, C.
Nervous tissue thiamine metabolism in vivo. III. Influence of ethanol intake on the dynamics of thiamine and its phosphoesters in different brain regions and sciatic nerve of the rat, **413**, 23
- Rinne, J.O.
Muscarinic and dopaminergic receptors in the aging human brain, **404**, 162
- Rio, J.P., see Reperant, J., **408**, 233
- Rio, J.P., see Weidner, C., **419**, 357
- Riopelle, R.J., see Boegman, R.J., **417**, 315
- Riskind, P.N., Kolodny, J.M. and Larsen, P.R.
The regional hypothalamic distribution of type II 5'-monodeiodinase in euthyroid and hypothyroid rats, **420**, 194
- Riskind, P.N., see Tatsuoka, Y., **411**, 200
- Rissing, R., see Windhorst, U., **408**, 289
- Ritter, S., see Rogulja, I., **419**, 333
- Rius, R.A., Bergamaschi, S., Di Fonso, F., Govoni, S., Trabucchi, M. and Rossi, F.
Acute ethanol effect on calcium antagonist binding in rat brain, **402**, 359
- Riveros, N., see Berdichevsky, E., **423**, 213
- Rivet, J.-M., see Oades, R.D., **406**, 136
- Rivet, J.M., see Choulli, K., **407**, 376
- Rivier, C. and Vale, W.
Cocaine stimulates adrenocorticotropin (ACTH) secretion through a corticotropin-releasing factor (CRF)-mediated mechanism, **422**, 403
- Rivier, J., see Zukin, S.R., **416**, 84
- Rivkind, A.I., see Amir, S., **435**, 112
- Rivot, J.P., Calvino, B. and Besson, J.M.
Is there a serotonergic tonic descending inhibition on the responses of dorsal horn convergent neurons to C-fibre inputs?, **403**, 142
- Rivot, J.P., Noret, E., Ory-Lavollée, L. and Besson, J.M.
In vivo electrochemical detection of 5-hydroxyindoles in the dorsal horn of the spinal cord: the contribution of uric acid to the voltammograms, **419**, 201
- Rivy, J.P., see D'Angio, M., **409**, 169
- Robbins, N., see Rochel, S., **435**, 41
- Robbins, R.J., see Deutch, A.Y., **417**, 350
- Robbins, T.W., see Dooley, D.J., **420**, 152
- Robertis, E.D., see Pazo, J.H., **414**, 405
- Roberts, E., see Bologa, L., **411**, 282
- Roberts, B.L. and Meredith, G.E.
Immunohistochemical study of a dopaminergic system in the spinal cord of the ray, *Raja radiata*, **437**, 171
- Roberts, E., Bologa, L., Flood, J.F. and Smith, G.E.
Effects of dehydroepiandrosterone and its sulfate on brain tissue in culture and on memory in mice, **406**, 357
- Roberts Jr., E.L. and Sick, T.J.
Recovery of synaptic transmission predicted from extracellular K⁺ undershoots following brief anoxia in hippocampal slices, **402**, 178
- Roberts Jr., E.L., see Sick, T.J., **418**, 227
- Roberts, M.H., Block, G.D. and Lusska, A.E.
Comparative studies of circadian pacemaker coupling in Opisthobranch molluscs, **423**, 286
- Roberts, P.J., see Butcher, S.P., **419**, 294
- Robertson, H.A., see Cottrell, G.A., **412**, 161
- Robertson, H.A., see Dragunow, M., **417**, 377
- Robertson, R.T. and Gorenstein, C.
'Non-specific' cholinesterase-containing neurons of the dorsal thalamus project to medial limbic cortex, **404**, 282
- Robinson, J.P., Willars, G.B., Tomlinson, D.R. and Keen, P.
Axonal transport and tissue contents of substance P in rats with long-term streptozotocin-diabetes. Effects of the aldose reductase inhibitor 'Statil', **426**, 339
- Robinson, R.G., see Kubos, K.L., **401**, 147
- Robison, B.L. and Sawyer, C.H.
Hypothalamic control of ovulation and behavioral estrus in the cat, **418**, 41
- Robitaille, R., Tremblay, J.P. and Grenon, G.
Interrelation between MEPP amplitude and MEPP frequency in different regions along the frog neuromuscular junction, **408**, 353
- Rochel, S. and Robbins, N.
Acetylcholine receptor availability and transmission efficacy, **435**, 41
- Roddy, D.R., see Schick, R.R., **418**, 20
- Rodier, P.M., see Aschner, M.,

- 401, 132
 Rodrigo-Angulo, M.L., see Baghdoyan, H.A., **414**, 245
 Rodrigo-Angulo, M.L., see McCarley, R.W., **409**, 111
 Rodriguez del Castillo, A., Battaner, E., Guerra, M., Alonso, T. and Mas, M. Regional changes of brain Na⁺, K⁺-transporting adenosine triphosphatase related to ovarian function, **416**, 113
 Rodriguez del Castillo, A., see Battaner, E., **425**, 391
 Roeder, L.M., see Tildon, J.T., **403**, 127
 Roerig, S.C., Fujimoto, J.M. and Lange, D.G. Development of tolerance to respiratory depression in morphine- and etorphine-pellet-implanted mice, **400**, 278
 Roest, G., see Voorn, P., **412**, 391
 Roffwarg, H.P., see Marks, G.A., **418**, 76
 Rogers, B.C., see Tilson, H.A., **408**, 163
 Rogers, D.C., see Dunnett, S.B., **415**, 63
 Rogers III, O.L. and Jackson, W.J. The effect of hypophysectomy, ACTH fragments and thalamic lesions upon kindled epilepsy, **403**, 96
 Rogister, B., see Lefebvre, P.P., **413**, 120
 Rogulja, I., Harding, J.W. and Ritter, S. Reduction of ¹²⁵I-angiotensin II binding sites in rat brain following monosodium glutamate treatment, **419**, 333
 Rollag, M.D., see Benshoff, H.M., **420**, 397
 Roman, F., Staubli, U. and Lynch, G. Evidence for synaptic potentiation in a cortical network during learning, **418**, 221
 Romanski, L.M., see Jarrell, T.W., **412**, 285
 Romey, G., see Lombet, A., **417**, 327
 Romijn, H.J., see Van Huizen, F., **408**, 271
 Roozendaal, B., Van Gool, W.A., Swaab, D.F., Hoogendijk, J.E. and Mirmiran, M. Changes in vasopressin cells of the rat suprachiasmatic nucleus with aging, **409**, 259
 Roques, B.P., see Delay-Goyet, P., **414**, 8
 Roques, B.P., see Dickenson, A.H., **408**, 185
 Roques, B.P., see Dickenson, A.H., **413**, 36
 Roques, B.P., see Waksman, G., **436**, 205
 Rose, G.M., see Gerhardt, G.A., **413**, 327
 Rose, G.M., see Pang, K., **425**, 146
 Rose, S.P.R., see Stewart, M.G., **426**, 69
 Rosen, M., see Kushner, M.J., **409**, 79
 Rosenblatt, D.E., Cotman, C.W., Nieto-Sampedro, M., Rowe, J.W. and Knauer, D.J. Identification of a protease inhibitor produced by astrocytes that is structurally and functionally homologous to human protease nexin-I, **415**, 40
 Rosenbluth, J., see Ishise, J., **418**, 85
 Rosenstein, J.M. Adrenal medulla grafts produce blood-brain barrier dysfunction, **414**, 192
 Rosenthal, M., see Kreisman, N.R., **417**, 335
 Rosenthal, R.S., see Krueger, J.M., **403**, 249
 Rosenthal, R.S., see Krueger, J.M., **403**, 258
 Ross, C.D., Bowers, M. and Godfrey, D.A. Distribution of glutaminase activity in retinal layers of rat and guinea pig, **401**, 168
 Ross, L.L., see Levitt, P., **418**, 174
 Ross, S.M., Seelig, M. and Spencer, P.S. Specific antagonism of excitotoxic action of 'uncommon' amino acids assayed in organotypic mouse cortical cultures, **425**, 120
 Rosser, S.J., see Jones, P.G., **437**, 56
 Rossi, F., see Rius, R.A., **402**, 359
 Rossignol, S., see Barbeau, H., **412**, 84
 Rossignol, S., see Barbeau, H., **437**, 83
 Rossini, P.M., Caramia, M. and Zarola, F. Central motor tract propagation in man: studies with non-invasive, unifocal, scalp stimulation, **415**, 211
 Rostami, A., Sobue, G., Lisak, R.P. and Pleasure, D.E. A monoclonal antibody to Schwann cell surface membrane recognizes a cAMP inducible epitope, **425**, 205
 Roth, G.S., see Henry, J.M., **418**, 334
 Roth, J.A., see Kung, M.-P., **419**, 141
 Roth, R.H., see Collier, T.J., **436**, 363
 Roth, R.H., see Deutch, A.Y., **417**, 350
 Roth, R.H., see Elsworth, J.D., **415**, 293
 Roth, S.H., see Konopacki, J., **405**, 196
 Roth, S.H., see Konopacki, J., **417**, 399
 Roth, S.H., see Konopacki, J., **436**, 217
 Rotter, A., see Gorenstein, C., **418**, 68
 Routledge, C. and Marsden, C.A. Comparison of the effects of selected drugs on the release of hypothalamic adrenaline and noradrenaline measured in vivo, **426**, 103
 Routtenberg, A., see Collier, T.J., **409**, 316
 Routtenberg, A., see Lovinger, D.M., **436**, 177
 Routtenberg, A., see Nelson, R.B., **416**, 387
 Rouzaire-Dubois, B. and Scarnati, E. Increase in glutamate sensitivity of subthalamic nucleus neurons following bilateral decortication: a microiontophoretic study in the rat, **403**, 366
 Rovati, L.C., see Panerai, A.E., **410**, 52
 Rowan, M., see Anwyl, R., **435**, 377
 Rowan, M., see Lee, W.-L., **426**, 250
 Rowe, J.W., see Rosenblatt, D.E., **415**, 40
 Roy, E.J., see Yongue, B.G., **436**, 49
 Royet, J.P., Sicard, G., Souchier, C. and Jourdan, F. Specificity of spatial patterns of glomerular activation in the mouse olfactory bulb: computer-assisted image analysis of 2-deoxyglucose autoradiograms, **417**, 1
 Rozsa, K.S., see Jahan-Parwar, B., **426**, 173
 Rubinstein, H., see Emanuele, N.V., **407**, 223
 Ruggiero, M., see Corradetti, R., **411**, 196
 Ruigt, G.S.F., Neyt, H.C., Van der Zalm, J.M. and Van den Bercken, J. Increase of sodium current after pyrethroid insecticides in mouse neuroblastoma cells, **437**, 309
 Rumigny, J.-F., see Pin, J.-P., **402**, 11
 Ruoho, A.E., see Lautens, L.L., **426**, 401
 Rusak, B., see Harrington, M.E., **410**, 275
 Rush, M.E., see Navarro, H.A., **421**, 291
 Russchen, F.T., see Stoof, J.C., **404**, 273
 Russell, V.A., Nurse, B., Lamm, M.C.L. and Taljaard, J.J.F. Effect of chronic antidepressant treatment on noradrenergic modulation of [³H]dopamine release from rat nucleus accumbens and striatal slices, **410**, 78
 Russell, V.A., see Jaffer, A., **404**, 267
 Russell, V.A., see Reyneke, L., **425**, 114
 Russett, L.R., see Hexum, T.D., **406**, 370
 R  thrich, H., see Pohle, W., **410**, 245
 Rutten, M.J., Hoover, R.L. and Karnovsky, M.J. Electrical resistance and macromolecular permeability of brain endothelial monolayer cultures, **425**, 301

S

- Saadi, M., see Gerozissis, K., **416**, 54
 Saavedra, H., see Motles, E., **405**, 165

- Saavedra, J.M., see Aiso, M., **408**, 281
- Saavedra, J.M., see Aiso, M., **426**, 392
- Saavedra, J.M., see Castrén, E., **422**, 347
- Saavedra, J.M., see Kurihara, M., **408**, 31
- Saavedra, J.M., see Plunkett, L.M., **405**, 205
- Sabbahi, M.A. and Sedgwick, E.M. Recovery profile of single motoneurons after electrical stimuli in man, **423**, 125
- Sacerdote, P., see Panerai, A.E., **410**, 52
- Sadoshima, J., see Inoue, M., **404**, 301
- Sadoshima, S., Fujii, K., Kusuda, K., Shikawa, O., Yao, H., Ibayashi, S. and Fujishima, M. Importance of bilateral sympathetic innervation on cerebral blood flow autoregulation in the thalamus, **413**, 297
- Sadoshima, S., see Yoshida, F., **412**, 1
- Saederup, E., see Squires, R.F., **414**, 357
- Saether, K., Hilaire, G. and Monteau, R. Dorsal and ventral respiratory groups of neurons in the medulla of the rat, **419**, 87
- Saffroy, M., see Ferino, F., **417**, 257
- Sagar, S.M. and Ferriero, D.M. NADPH Diaphorase activity in the posterior pituitary: relation to neuronal function, **400**, 348
- Sagar, S.M. Vasoactive intestinal polypeptide (VIP) immunohistochemistry in the rabbit retina, **426**, 157
- Sagar, S.M., Sharp, F.R. and Swanson, R.A. The regional distribution of glycogen in rat brain fixed by microwave irradiation, **417**, 172
- Sagen, J. and Proudfit, H.K. Release of endogenous monoamines into spinal cord superfusates following the microinjection of phenolamine into the nucleus raphe magnus, **406**, 246
- Sagvolden, T., see Hansen, T.W.R., **424**, 26
- Sahaf, Z.Y. and Publicover, S.J. Chlorpromazine, but not chlorpromazine sulphoxide, stimulates transmitter release from motor nerve terminals, **437**, 397
- Sahenk, Z., see Pappolla, M., **424**, 272
- Sahibzada, N., Yamasaki, D. and Rhoades, R.W. The spinal and commissural projections from the superior colliculus in rat and hamster arise from distinct neuronal populations, **415**, 242
- Sahlín, C., Brismar, J., Delgado, T., Owman, C., Salford, L.G. and Svendgaard, N.-A. Cerebrovascular and metabolic changes during the delayed vasospasm following experimental subarachnoid hemorrhage in baboons, and treatment with a calcium antagonist, **403**, 313
- Saint-Cyr, J.A., see Midha, R., **410**, 299
- Saint-Marc, M., see Cazala, P., **416**, 283
- Saito, N., see Sakaguchi, H., **410**, 380
- Saito, K., Liu-Chen, L.-Y. and Moskowitz, M.A. Substance P-like immunoreactivity in rat forebrain leptomeninges and cerebral vessels originates from the trigeminal but not sympathetic ganglia, **403**, 66
- Saito, N., see Kumoi, K., **416**, 22
- Saito, T., see Harada, E., **414**, 173
- Saito, T., see Shibuki, K., **410**, 140
- Saito, Y. and Wright, E.M. Regulation of intracellular chloride in bullfrog choroid plexus, **417**, 267
- Sakaguchi, H., Asano, M., Yamamoto, K. and Saito, N. Release of endogenous γ -aminobutyric acid from vocalization nucleus, the robust nucleus of the archistriatum of zebra finch in vitro, **410**, 380
- Sakai, Y., see Sekiguchi, M., **423**, 23
- Sakai, Y., see Sekiguchi, M., **437**, 402
- Sakai, K., see Luppi, P.-H., **402**, 339
- Sakai, M., see Yoshida, M., **410**, 169
- Sakakibara, S., see Oyama, Y., **424**, 58
- Sakamoto, H., see Atsumi, S., **409**, 187
- Sakamoto, N., Michel, J.-P., Kopp, N. and Pearson, J. Neurotensin immunoreactive neurons in the human infant diencephalon, **403**, 31
- Sakamoto, T., Porter, L.L. and Asanuma, H. Long-lasting potentiation of synaptic potentials in the motor cortex produced by stimulation of the sensory cortex in the cat: a basis of motor learning, **413**, 360
- Sakanaka, M., Shibasaki, T. and Lederis, K. Corticotropin-releasing factor-containing afferents to the inferior colliculus of the rat brain, **414**, 68
- Sakatani, N., see Inui, A., **417**, 355
- Sakharov, D.A., see Salimova, N.B., **400**, 285
- Sakuma, Y. and Akaishi, T. Leumorphin, a novel opioid peptide, promotes lordosis in female rats, **407**, 401
- Salaices, M., see Sanchez-Ferrer, C.F., **411**, 304
- Salanki, J., see Jahan-Parwar, B., **426**, 173
- Salford, L.G., see Sahlin, C., **403**, 313
- Salimova, N.B., Sakharov, D.A., Milosëvić, I., Turpaev, T.M. and Rakić, L. Monoamine-containing neurons in the *Aplysia* brain, **400**, 285
- Salvaterra, P.M., see Matthews, D.A., **402**, 30
- Salvert, D., see Luppi, P.-H., **402**, 339
- Salzman, S.K., see Stanton, T.L., **413**, 350
- Samanin, R., see Esposito, E., **436**, 25
- Samejima, A., see Yamamoto, T., **437**, 369
- Samojla, B.G., see Glenn, L.L., **435**, 398
- Sampson, S.R., see Brodie, C., **435**, 393
- Sanchez-Ferrer, C.F., Marin, J., Benitez, J., Herrera, N., Rico, I. and Salaices, M. Effect of pentobarbital on the contraction and calcium movements in cat cerebral and peripheral arteries, **411**, 304
- Sánchez, M.A., see Bermúdez-Rattoni, F., **416**, 147
- Sandeman, D.C., see Sandeman, R.E., **403**, 371
- Sandeman, R.E. and Sandeman, D.C. Serotonin-like immunoreactivity of giant olfactory interneurons in the crayfish brain, **403**, 371
- Sander, H.W. and Gintzler, A.R. Spinal cord mediation of the opioid analgesia of pregnancy, **408**, 389
- Sanders-Bush, E., see Conn, P.J., **400**, 396
- Sandner, G., Hayashi, K. and Tsukada, M. Spike trains in rat periaqueductal gray depend on the stochastic properties of interacting electrical stimulation trains, **421**, 150
- Sandor, P., De Jong, W., Cox-Van Put, J. and De Wied, D. Influence of centrally administered α - and γ_2 -melanocyte-stimulating hormone on hypothalamic blood flow autoregulation in the rat, **424**, 189
- Sandrock Jr., A.W. and Matthew, W.D. Substrate-bound nerve growth factor promotes neurite growth in peripheral nerve, **425**, 360
- Sanghera, M.K., Fuchs, I., Weidmer-Mikhail, E. and Speciale, S.G. Met-Enkephalin levels in midbrain dopamine regions of inbred mouse strains which differ in the number of dopamine neurons, **412**, 200
- Sano, M., see Seto-Ohshima, A., **410**, 292
- Sans, A., Brehier, A., Moniot, B. and Thomasset, M. Immuno-electronmicroscopic localization of 'vitamin D-dependent' calcium-binding protein (CaBP-28k) in the vestibular hair cells of the cat, **435**, 293
- Santicoli, P., see Maggi, C.A., **415**, 1
- Santicoli, P., see Maggi, C.A., **436**, 402
- Santiso, M., see Yoshida, S., **412**, 114
- Santos-Benito, F.F., see González, J.L., **412**, 148
- Sapirstein, V.S., see Fischer, I., **436**, 39
- Sapp, D.W., see Rhodes, K.J., **412**, 400
- Sapru, H.N., see Punnen, S., **422**, 336

- Sardar, A., Juorio, A.V. and Boulton, A.A.
The concentration of *p*- and *m*-tyramine in the rat mesolimbic system: its regional distribution and effect of monoamine oxidase inhibition, **412**, 370
- Sasa, M., Ohno, Y., Nabatame, H., Yoshimura, N. and Takaori, S.
Effects of *L*-threo-DOPS, an *L*-noradrenaline precursor, on locus coeruleus-originating neurons in spinal trigeminal nucleus, **420**, 157
- Sasa, M., see Akaïke, A., **418**, 262
- Sasa, M., see Ujihara, H., **418**, 52
- Sasaki, K., see Nishino, H., **413**, 302
- Sasaki, S., see Alstermark, B., **404**, 382
- Sasaki, S., see Alstermark, B., **404**, 389
- Sasaki, S., see Alstermark, B., **404**, 395
- Sasaki, K. and Gemba, H.
Effects of cooling the prefrontal and prestriate cortex upon visually initiated hand movements in the monkey, **415**, 362
- Sasaki, S.E., see Davies, M.F., **437**, 239
- Satin, L. and Adams, P.
Spontaneous miniature outward currents in cultured bullfrog neurons, **401**, 331
- Satinoff, E., see Kent, S., **415**, 169
- Sato, G., see Onodera, H., **415**, 309
- Sato, M. and Koyano, H.
Autoradiographic demonstration of the distribution of vagal afferent nerve fibers in the epiglottis of the rabbit, **410**, 101
- Sato, M. and Koyano, H.
Autoradiographic study on the distribution of vagal afferent nerve fibers in the gastroduodenal wall of the rabbit, **400**, 101
- Sato, T., Miyamoto, T. and Okada, Y.
Latency of gustatory neural impulses initiated in frog tongue, **424**, 333
- Sato, Y., see Shojaku, H., **416**, 100
- Satoda, T., see Tashiro, T., **424**, 391
- Satoh, M., see Oku, R., **403**, 350
- Satoh, M., see Ueda, H., **425**, 101
- Satorre, J., De la Roza, C., Cano, J. and Reinoso-Suárez, F.
Complex convolutions in neurons of the dorsal lateral geniculate nucleus of the normal albino rat, **404**, 231
- Satou, M., see Oka, Y., **400**, 383
- Satou, M., see Oka, Y., **400**, 389
- Satou, M., see Takei, K., **410**, 395
- Satrústegui, J., see Martínez, A., **435**, 249
- Saucier, D., see Astic, L., **424**, 144
- Savage, M.J., Goldberg, D.J. and Schacher, S.
Absolute specificity for retrograde fast axonal transport displayed by lipid droplets originating in the axon of an identified *Aplysia* neuron in vitro, **406**, 215
- Sawchenko, P.E.
Evidence for a local site of action for glucocorticoids in inhibiting CRF and vasopressin expression in the paraventricular nucleus, **403**, 213
- Sawchenko, P.E.
Evidence for differential regulation of corticotropin-releasing factor and vasopressin immunoreactivities in parvocellular neurosecretory and autonomic-related projections of the paraventricular nucleus, **437**, 253
- Sawyer, C.H., see Robison, B.L., **418**, 41
- Sawynok, J. and Reid, A.
Effect of 6-hydroxydopamine-induced lesions to ascending and descending noradrenergic pathways on morphine analgesia, **419**, 156
- Sayers, S.T., see Held, I.R., **407**, 341
- Sayre, L.M., see Morandi, A., **437**, 69
- Sbacchi, M., see Esposito, E., **436**, 25
- Scallet, A.C., Faris, P.L., Beinfeld, M.C. and Olney, J.W.
Hypothalamic neurotoxins alter the content of immunoreactive cholecystikinin in pituitary, **407**, 390
- Scallet, A.C., Uemura, E., Andrews, A., Ali, S.F., McMillan, D.E., Paule, M.G., Brown, R.M. and Slikker Jr., W.
Morphometric studies of the rat hippocampus following chronic delta-9-tetrahydrocannabinol (THC), **436**, 193
- Scarnati, E., see Rouzaire-Dubois, B., **403**, 366
- Scarnati, E., Proia, A., Di Loreto, S. and Pacitti, C.
The reciprocal electrophysiological influence between the nucleus tegmenti pedunculopontinus and the substantia nigra in normal and decorticated rats, **423**, 116
- Scatton, B., see Benavides, J., **421**, 167
- Scatton, B., see Cudennec, A., **423**, 162
- Scatton, B., see D'Angio, M., **409**, 169
- Scatton, B., see Paturle, L., **402**, 383
- Schacher, S., see Savage, M.J., **406**, 215
- Schachner, M., see Kettenmann, H., **404**, 1
- Schäfer, J., see Racké, K., **436**, 371
- Schauf, C.L.
Zonisamide enhances slow sodium inactivation in *Myxicola*, **413**, 185
- Scheetz, A.J., Markham, J.A. and Fiková, E.
Changes in the frequency of basket cells in the dentate fascia following chronic ethanol administration in mice, **403**, 151
- Scheetz, A.J., Markham, J.A. and Fiková, E.
The effect of chronic ethanol consumption on the fine structure of the CA₁ stratum oriens in short-sleep and long-sleep mice: short-term and long-term exposure, **409**, 329
- Scheich, H., see Hose, B., **422**, 367
- Scheich, H., see Müller, C.M., **414**, 376
- Schenone, A.E. and Dyck, P.J.
Which endoneurial microvessel histologic measurements are least influenced by vasomotor tone?, **402**, 151
- Schick, R.R., Reilly, W.M., Roddy, D.R., Yaksh, T.L. and Go, V.L.W.
Neuronal cholecystikinin-like immunoreactivity is postprandially released from primate hypothalamus, **418**, 20
- Schild, D.
Response pattern features of mitral cells in the goldfish olfactory bulb, **405**, 364
- Schilling, L., see Wahl, M., **411**, 72
- Schipper, J., see De Vente, J., **411**, 120
- Schipper, J., see Plantjé, J.F., **413**, 205
- Schlageter, N.L., see Horwitz, B., **407**, 294
- Schlander, M., Thomalske, G. and Frotscher, M.
Fine structure of GABAergic neurons and synapses in the human dentate gyrus, **401**, 185
- Schleicher, A., see Wree, A., **436**, 283
- Schmelzer, J.D., see Nagata, H., **422**, 319
- Schmid, P.G., see Wilkin, L.D., **423**, 369
- Schmidt, C.J., see Matsuda, L.A., **400**, 176
- Schmidt, J.T., see Benowitz, L.I., **417**, 118
- Schmidt, R.E., Modert, C.W. and Grabau, G.G.
Orthograde and retrograde axonal transport of dopamine- β -hydroxylase in ileal mesenteric nerves of rats with chronic streptozotocin diabetes, **401**, 142
- Schmitt, H., see Brisac, A.-M., **435**, 160
- Schmued, L.C., see Millhorn, D.E., **424**, 99
- Schneider, J., see Henke, H., **410**, 404
- Schneider, J.S., see Levine, M.S., **405**, 389
- Schneider, J.S., Yuwiler, A. and Markham, C.H.
Selective loss of subpopulations of ventral mesencephalic dopaminergic neurons in the monkey following exposure to MPTP, **411**, 144
- Schneiderman, N., see Jarrell, T.W., **412**, 285
- Schneiderman, J.H. and MacDonald, J.F.
Effects of reduced magnesium on hippocampal synchrony, **410**, 174
- Schneiderman, J.H.
'Slow' field potentials in penicillin-perfused hippocampal slices, **403**, 162
- Schoener, E.P., see Barraco, R.A., **424**, 17
- Scholz, K., see Grober, M.S., **436**, 148
- Schooneveld, H., Van Herp, F. and Van Minnen, J.
Demonstration of substances

- immunologically related to the identified arthropod neuropeptides AKH/RPCH in the CNS of several invertebrate species, **406**, 224
- Schotman, P., see Verhaagen, J., **404**, 142
- Schotte, A. and Laduron, P.M.
Different postnatal ontogeny of two [³H]neurotensin binding sites in rat brain, **408**, 326
- Schrama, L.H., see De Graan, P.N.E., **404**, 345
- Schramm, M., see Minc-Golomb, D., **402**, 255
- Schramm, L.P., see Knuepfer, M.M., **435**, 167
- Schröck, H., see Grünwald, F., **400**, 232
- Schuetz, W.H., see Vern, B.A., **415**, 188
- Schumacher, M. and Balthazart, J.
Neuroanatomical distribution of testosterone-metabolizing enzymes in the Japanese quail, **422**, 137
- Schumacher, M., see Panzica, G.C., **416**, 59
- Schurr, A., Changaris, D.G. and Rigor, B.M.
Glutamine protects neuronal function against cerebral hypoxia: a study using the in vitro hippocampal slice preparation, **412**, 179
- Schurr, A., West, C.A., Reid, K.H., Tseng, M.T., Reiss, S.J. and Rigor, B.M.
Increased glucose improves recovery of neuronal function after cerebral hypoxia in vitro, **421**, 135
- Schwarcz, R., see Speciale, C., **436**, 18
- Schwark, W.S., see Löscher, W., **420**, 385
- Schwartz, R., Nagel, J.A. and Huston, J.P.
Asymmetries of brain dopamine metabolism related to conditioned paw usage in the rat, **417**, 75
- Schwartz, M., see Lavie, V., **419**, 166
- Schwartz, M., see Zak, N.B., **408**, 263
- Schwartz, R., see Kushner, M.J., **409**, 79
- Schwartz, R.D., see Caspers, M.L., **409**, 335
- Schwartz, R.D., see Majewska, M.D., **404**, 355
- Schwartz, R.D., Wess, M.J., Labarca, R., Skolnick, P. and Paul, S.M.
Acute stress enhances the activity of the GABA receptor-gated chloride ion channel in brain, **411**, 151
- Schwartz, W.J., Lydic, R. and Moore-Ede, M.C.
In vivo metabolic activity of the suprachiasmatic nuclei: non-uniform intranuclear distribution of ¹⁴C-labeled deoxyglucose uptake, **424**, 249
- Schwartz, W.J., see Reppert, S.M., **403**, 398
- Schwartz-Giblin, S., see Cohen, M.S., **401**, 103
- Schwartz-Giblin, S., see Cohen, M.S., **405**, 155
- Schwartzkroin, P.A., see Janigro, D., **404**, 189
- Schwartzkroin, P.A., see Taube, J.S., **419**, 32
- Schwarz, M., see Turski, L., **424**, 37
- Schwarz, M., see Wüllner, U., **422**, 129
- Schwegler, H., see Crusio, W.E., **425**, 182
- Schweitzer, J.B.
Nerve growth factor receptor-mediated transport from cerebrospinal fluid to basal forebrain neurons, **423**, 309
- Scialabba, F.A., see Shin, C., **411**, 21
- Scoggins, B.A., see Wang, X., **436**, 199
- Scott, J.J.A.
The reinnervation of cat muscle spindles by skeletofusimotor axons, **401**, 152
- Scott, T.R. and Mark, G.P.
The taste system encodes stimulus toxicity, **414**, 197
- Seagar, M.J., Deprez, P., Martin-Moutot, N. and Couraud, F.
Detection and photoaffinity labeling of the Ca²⁺-activated K⁺ channel-associated apamin receptor in cultured astrocytes from rat brain, **411**, 226
- Sears, T.A., see Kirkwood, P.A., **405**, 187
- Seaton, J.F., see Dundore, R.L., **401**, 122
- Sebens, J.B., see Loopuijt, L.D., **405**, 405
- Seckl, J.R. and Lightman, S.L.
Intracerebroventricular arginine vasopressin causes intracranial pressure to rise in conscious goats, **423**, 279
- Sedgwick, E.M., see Sabbahi, M.A., **423**, 125
- See, W.R., Cohen, M.I., Barnhardt, R. and Christakos, C.N.
Intracellular potentials and discharge patterns of expiratory neurons in the caudal ventral respiratory group: influence of phasic pulmonary afferent input, **421**, 363
- See, W.R., see Cohen, M.I., **417**, 148
- Seelig, M., see Nunn, P.B., **410**, 375
- Seelig, M., see Ross, S.M., **425**, 120
- Segade, L.A.G., Suarez Quintanilla, D. and Suarez Nuñez, J.M.
The postganglionic parasympathetic fibers originating in the otic ganglion are distributed in several branches of the trigeminal mandibular nerve: an HRP study in the guinea pig, **411**, 386
- Segal, M.
Repetitive inhibitory postsynaptic potentials evoked by 4-aminopyridine in hippocampal neurons in vitro, **414**, 285
- Segil, N., see Grober, M.S., **436**, 148
- Sehrbunt Viale, E., see Cossu, M., **415**, 399
- Seiden, L.S., see Commins, D.L., **403**, 7
- Seiden, L.S., see Commins, D.L., **419**, 253
- Seiger, Å., see Granholm, A.-C., **423**, 71
- Seil, F.J., see Meshul, C.K., **402**, 139
- Seitz, D.J., see Bracha, H.S., **411**, 231
- Sekiguchi, M., see Mori-Okamoto, J., **401**, 60
- Sekiguchi, K., see Sugaya, E., **406**, 270
- Sekiguchi, M., Okamoto, K. and Sakai, Y.
Excitatory action of N-acetylaspartylglutamate on Purkinje cells in guinea pig cerebellar slices: an intrasomatic study, **423**, 23
- Sekiguchi, M., Okamoto, K. and Sakai, Y.
NMDA-receptors on Purkinje cell dendrites in guinea pig cerebellar slices, **437**, 402
- Selak, I., see Lefebvre, P.P., **413**, 120
- Selzer, M.E., see Yin, H.-S., **421**, 48
- Semba, R., Kato, K., Isobe, T. and Kashiwamata, S.
Purification of S-100a₀ protein from rat kidney, **401**, 9
- Senba, E., see Fujii, S., **401**, 1
- Senseman, D.M., see Kauer, J.S., **418**, 255
- Sepcuti, H., see Rehavi, M., **410**, 135
- Seregi, A., Keller, M. and Hertting, G.
Are cerebral prostanoids of astroglial origin? Studies on the prostanoid forming system in developing rat brain and primary cultures of rat astrocytes, **404**, 113
- Seress, L. and Mrzljak, L.
Basal dendrites of granule cells are normal features of the fetal and adult dentate gyrus of both monkey and human hippocampal formations, **405**, 169
- Seroogy, K., see Gall, C., **403**, 403
- Seroogy, K., see Millhorn, D.E., **410**, 179
- Seroogy, K., see Millhorn, D.E., **424**, 99
- Seroogy, K.B., see Code, R.A., **421**, 401
- Seroogy, K.B., see Hunt, C.A., **426**, 257
- Serrano, A., see D'Angio, M., **409**, 169
- Sershen, H., see Lapin, E.P., **407**, 351
- Seshi, B., see Frikke, M.J., **417**, 283
- Sessle, B.J. and Henry, J.L.
Angiotensin II excites neurones in cat solitary tract nuclei which are involved in respiration and related reflex activities, **407**, 163
- Seth, S.D., see Rao, T.S., **435**, 7
- Seto-Ohshima, A., Sano, M., Kitajima, S., Kawamura, N., Yamazaki, Y. and Nagata, Y.
The effect of axotomy and denervation on calmodulin content in the superior cervical sympathetic ganglion of the rat, **410**, 292
- Severs, W.B., see Dundore, R.L., **401**, 122

- Sewell, W.F., see Adams, J.C., **419**, 347
- Seybold, V., see Sharp, B.M., **422**, 361
- Seydoux, J., see Shibata, M., **436**, 273
- Shader, R.I., see Miller, L.G., **414**, 395
- Shah, J., Cohen, R.S. and Pant, H.C. Inositol triphosphate-induced calcium release in brain microsomes, **419**, 1
- Shaikh, M.B., Barrett, J.A. and Siegel, A. The pathways mediating affective defense and quiet biting attack behavior from the midbrain central gray of the cat: an autoradiographic study, **437**, 9
- Shaikh, M.B., see Barrett, J.A., **426**, 381
- Shalaby, I.A., Won, L. and Wainer, B. Biochemical and morphological studies on GABA neurons in reaggregate culture, **402**, 68
- Shanabrough, M., see MacLusky, N.J., **422**, 83
- Shanley, B., see McKinnon, G., **416**, 90
- Shannon, N.J. and Moore, K.E. 5-Hydroxytryptamine is synthesized in neurons terminating in the neural and intermediate lobes of the rat pituitary gland, **402**, 287
- Shannon, N.J. and Moore, K.E. Determination of the source of 5-hydroxytryptaminergic neuronal projections to the neural and intermediate lobes of the rat pituitary gland through the use of electrical stimulation and lesioning experiments, **416**, 322
- Shapiro, J., Gurtu, S., Gordon, T. and Smith, P.A. Axotomy increases the conduction velocity of C-cells in bullfrog sympathetic ganglia, **410**, 186
- Shapiro, R.M., Glick, S.D. and Camarota, N.A. A two-population model of rat rotational behavior: effects of unilateral nigrostriatal 6-hydroxydopamine on striatal neurochemistry and amphetamine-induced rotation, **426**, 323
- Sharkawi, M., see Mekhail-Ishak, K., **426**, 62
- Sharma, H.S. and Dey, P.K. Influence of long-term acute heat exposure on regional blood-brain barrier permeability, cerebral blood flow and 5-HT level in conscious normotensive young rats, **424**, 153
- Sharma, J., see Bologna, L., **411**, 282
- Sharma, S., see Lavie, V., **419**, 166
- Sharman, D.F., see Thornton, S.N., **410**, 401
- Sharp, B.M., Nicol, S., Cummings, S. and Seybold, V. Distribution of nicotinic binding sites with respect to CRF and neurophysin immunoreactive perikarya within the rat hypothalamus, **422**, 361
- Sharp, F.R., see Sagar, S.M., **417**, 172
- Sharp, T., Zetterström, T., Ljungberg, T. and Ungerstedt, U. A direct comparison of amphetamine-induced behaviours and regional brain dopamine release in the rat using intracerebral dialysis, **401**, 322
- Shaw, C., see Prusky, G.T., **412**, 131
- Shechter, Y., see Amir, S., **418**, 152
- Shechter, Y., see Amir, S., **419**, 392
- Sheedlo, H.J. and Siegel, G.J. Comparison of the distribution of Na⁺, K⁺-ATPase and myelin-associated glycoprotein (MAG) in the optic nerve, spinal cord and trigeminal ganglion of shiverer (*shi/shi*) and control (+/+) mice, **415**, 105
- Shefner, S.A., see Osmanović, S.S., **417**, 161
- Shehin, S.E., see Barraco, R.A., **424**, 17
- Shekhar, A., Hingtgen, J.N. and DiMicco, J.A. Selective enhancement of shock avoidance responding elicited by GABA blockade in the posterior hypothalamus of rats, **420**, 118
- Shelest, T.N., see Krishtal, O.A., **436**, 352
- Shelton, R.C., Grebb, J.A. and Freed, W.J. Induction of seizures in mice by intracerebroventricular administration of the calcium channel agonist BAY k 8644, **402**, 399
- Shelton, S.E., see Kalin, N.H., **408**, 192
- Shelton, S.E., see Kalin, N.H., **426**, 385
- Shemer, J., see Masters, B.A., **417**, 247
- Shen, E., see Jiang, C., **413**, 189
- Sheppard, A.M., see French, P.W., **420**, 324
- Shibasaki, T., see Sakanaka, M., **414**, 68
- Shibasaki, T., see Wanaka, A., **435**, 91
- Shibata, K., see Kataoka, Y., **416**, 243
- Shibata, M., Benzi, R.H., Seydoux, J. and Girardier, L. Hyperthermia induced by pre-pontine knife-cut: evidence for a tonic inhibition of non-shivering thermogenesis in anaesthetized rat, **436**, 273
- Shibata, S., Newman, G.C. and Moore, R.Y. Effects of calcium ions on glucose utilization in the rat suprachiasmatic nucleus in vitro, **426**, 332
- Shibuki, K., Onaka, T., Hamamura, M., Yagi, K., Ishikawa, S.-E., Saito, T. and Yoshida, S. Synergistic interactions between footshocks and non-osmotic hypovolemia on vasopressin secretion in rats, **410**, 140
- Shigematsu, K., see Kurihara, M., **408**, 31
- Shigematsu, K., see Aiso, M., **408**, 281
- Shigematsu, K., see Plunkett, L.M., **405**, 205
- Shigenaga, Y., see Nasution, I.D., **425**, 234
- Shigenaga, Y., see Yoshida, A., **416**, 393
- Shima, F., see Aiko, Y., **408**, 47
- Shimada, M., see Ozaki, H.S., **400**, 239
- Shimada, M., see Matsui, H., **402**, 193
- Shimada, S., Inagaki, S., Kubota, Y., Kito, S., Shiotani, Y. and Tohyama, M. Coexistence of substance P- and enkephalin-like peptides in single neurons of the rat hypothalamus, **425**, 256
- Shimada, S., see Kubota, Y., **413**, 179
- Shimada, S., see Kubota, Y., **415**, 385
- Shimahara, T. and Icard-Liepkalns, C. Activation of enkephalin receptors reduces calcium conductance in neuroblastoma cells, **415**, 357
- Shimamoto, N., see Hirata, T., **422**, 374
- Shimizu, M., see Miyoshi, R., **420**, 302
- Shimizu, N., Oomura, Y., Plata-Salamán, C.R. and Morimoto, M. Hyperphagia and obesity in rats with bilateral ibotenic acid-induced lesions of the ventromedial hypothalamic nucleus, **416**, 153
- Shimoji, K., Takahata, Y., Fujiwara, N., Endoh, H., Taga, K. and Ohama, E. Effects of pentobarbital and ketamine on brain injury-induced anti-ischemic activity, **408**, 385
- Shimosegawa, T., Koizumi, M., Toyota, T., Goto, Y., Yanaihara, C. and Yanaihara, N. An immunohistochemical study of methionine-enkephalin-Arg⁶-Gly⁷-Leu⁸-like immunoreactivity-containing neurons in the parasympathetic preganglionic regions of the rat spinal cord, **406**, 341
- Shin, C., Scialabba, F.A. and McNamara, J.O. Stimulation of substantia nigra pars reticulata enhances dentate granule cell excitability, **411**, 21
- Shin, C., see King, P.H., **423**, 261
- Shin, C., Silver, J.M., Bonhaus, D.W. and McNamara, J.O. The role of substantia nigra in the development of kindling: pharmacologic and lesion studies, **412**, 311
- Shin, H.K., see Kim, J., **417**, 304
- Shingai, R., see Usami, K., **420**, 167
- Shinnick-Gallagher, P., see Kumamoto, E., **435**, 403
- Shinnick-Gallagher, P., see Joëls, M., **417**, 99
- Shinoda, K., see Inagaki, N., **418**, 388
- Shinoda, K., Tohyama, M. and

- Shiotani, Y.
Hippocampofugal γ -aminobutyric acid (GABA)-containing neuron system in the rat: a study using a double-labeling method that combines retrograde tracing and immunocytochemistry, **409**, 181
- Shiosako, J., see Cascio, C.S., **423**, 173
- Shioda, S., Kohara, H. and Nakai, Y.
TRH axon terminals in synapsis with GRF neurons in the arcuate nucleus of the rat hypothalamus as revealed by double labeling immunocytochemistry, **402**, 355
- Shiokawa, O., see Sadoshima, S., **413**, 297
- Shiosaka, S., see Kawai, Y., **401**, 371
- Shiosaka, S., see Nomura, H., **404**, 365
- Shiotani, Y., see Shinoda, K., **409**, 181
- Shiotani, Y., see Inagaki, N., **418**, 388
- Shiotani, Y., see Shimada, S., **425**, 256
- Shippenberg, T.S. and Herz, A.
Place preference conditioning reveals the involvement of D_1 -dopamine receptors in the motivational properties of μ - and κ -opioid agonists, **436**, 169
- Shippenberg, T.S., Bals-Kubik, R. and Herz, A.
Motivational properties of opioids: evidence that an activation of δ -receptors mediates reinforcement processes, **436**, 234
- Shirao, T., Inoue, H.K., Kano, Y. and Obata, K.
Localization of a developmentally regulated neuron-specific protein S54 in dendrites as revealed by immunoelectron microscopy, **413**, 374
- Shirao, T., see Obata, K., **404**, 169
- Shiurba, R.A., Eng, L.F., Sternberger, N.H., Sternberger, L.A. and Urlich, H.
The cytoskeleton of the human cerebellar cortex: an immunohistochemical study of normal and pathological material, **407**, 205
- Shizume, K., see Suda, T., **405**, 247
- Shoham, S., Ahokas, R.A., Blatteis, C.M. and Krueger, J.M.
Effects of muramyl dipeptide on sleep, body temperature and plasma copper after intracerebral ventricular administration, **419**, 223
- Shoham, S., see Krueger, J.M., **403**, 249
- Shoham, S., see Krueger, J.M., **403**, 258
- Shojaku, H., Sato, Y., Ikarashi, K. and Kawasaki, T.
Topographical distribution of Purkinje cells in the uvula and the nodulus projecting to the vestibular nuclei in cats, **416**, 100
- Sholomenko, G.N., see Steeves, J.D., **401**, 205
- Shouse, M.N.
Thalamocortical mechanisms of state-dependent seizures during amygdala kindling and systemic penicillin epilepsy in cats, **425**, 198
- Shucard, D.W., see Church, M.W., **403**, 72
- Shulkes, A., Lewis, S.J. and Jarrott, B.
Strain differences in central nervous system neurotensin content between normotensive and spontaneously hypertensive rats, **415**, 404
- Shults, C.W., Johnston, P. and Gage, F.H.
Comparison of substance K-like and substance P-like fibers and cells in the rat hippocampus, **426**, 290
- Shuvalova, T.B., see Lukoshkova, E.V., **412**, 357
- Sica, A.L., Donnelly, D.F., Steele, A.M. and Gandhi, M.R.
Discharge properties of dorsal medullary inspiratory neurons in newborn pigs, **408**, 222
- Sica, A.L., see Cohen, M.I., **417**, 148
- Sicard, G., see Royet, J.P., **417**, 1
- Siccardi, D., see Cossu, M., **415**, 399
- Sick, T.J., see Kreisman, N.R., **417**, 335
- Sick, T.J., see Roberts Jr., E.L., **402**, 178
- Sick, T.J., Solow, E.L. and Roberts Jr., E.L.
Extracellular potassium ion activity and electrophysiology in the hippocampal slice: paradoxical recovery of synaptic transmission during anoxia, **418**, 227
- Sidhu, H.S., Munoz, D.G. and Wood, J.D.
 γ -Aminobutyric acid (GABA) uptake systems in human frontal cortex, **435**, 334
- Siegel, A., see Barrett, J.A., **426**, 381
- Siegel, A., see Dalsass, M., **425**, 346
- Siegel, A., see Shaikh, M.B., **437**, 9
- Siegel, D.A., see Walkley, S.U., **410**, 89
- Siegel, G.J., see Sheedlo, H.J., **415**, 105
- Siggins, G.R., Pittman, Q.J. and French, E.D.
Effects of ethanol on CA_1 and CA_3 pyramidal cells in the hippocampal slice preparation: an intracellular study, **414**, 22
- Sigrist, S., see Henke, H., **410**, 404
- Sikri, K., see Allt, G., **416**, 166
- Silberberg, D.H., see Bhat, S., **412**, 144
- Silbering, J., see Przewłocki, R., **413**, 213
- Sills, M.A. and Jacobowitz, D.M.
Chronic administration of desipramine or nialamide decreases wet-dog shakes in rats produced by the TRH-analog MK-771, **401**, 195
- Silver, F., see Kushner, M.J., **409**, 79
- Silver, J.M., see Shin, C., **412**, 311
- Silverman, A.-J., see Gibson, M.J., **424**, 133
- Silverman, A.-J., Silverman, R., Lehman, M.N., Witkin, J.W. and Millar, R.P.
Localization of a peptide sequence contained in the precursor to gonadotropin releasing hormone (GnRH), **402**, 346
- Silverman, A.J., see Perlow, M.J., **415**, 158
- Silverman, R., see Silverman, A.-J., **402**, 346
- Silverman, W.F., Aravich, P.F., Collier, T.J., Olschowka, J.A. and Sladek Jr., J.R.
Reinnervation of transplanted hypothalamic neurons by host aminergic fibers in rats, **412**, 375
- Silvia, R.C., Slizgi, G.R., Ludens, J.H. and Tang, A.H.
Protection from ischemia-induced cerebral edema in the rat by U-50488H, a kappa opioid receptor agonist, **403**, 52
- Simerly, R.B. and Swanson, L.W.
The distribution of neurotransmitter-specific cells and fibers in the anteroventral periventricular nucleus: implications for the control of gonadotropin secretion in the rat, **400**, 11
- Simerly, R.B., see Swanson, L.W., **405**, 108
- Siminoski, K. and Murphy, R.A.
Detection of molecules with nerve growth factor binding activity in medium conditioned by L-929 fibroblasts, **435**, 273
- Simmons, A., see Ugolini, G., **422**, 242
- Simon, E., see Gerstberger, R., **400**, 165
- Simon, E., see Simon-Oppermann, C., **424**, 163
- Simon, E.J., see Carr, K.D., **422**, 384
- Simon, E.J., see Hiller, J.M., **406**, 17
- Simon, H., see Choulli, K., **407**, 376
- Simon, H., see Oades, R.D., **406**, 136
- Simon, H., see Onténiente, B., **421**, 391
- Simon, J.R., see Kaseda, Y., **422**, 178
- Simon-Oppermann, C., Eriksson, S., Simon, E. and Gray, D.A.
Gradient of arginine vasopressin concentration but not angiotensin II concentration between cerebrospinal fluid of anterior 3rd ventricle and cisterna magna in dogs, **424**, 163
- Simone, D.A., Ngeow, J.Y.F., Putterman, G.J. and LaMotte, R.H.
Hyperalgesia to heat after intradermal injection of capsaicin, **418**, 201
- Simonneau, M., Distasi, C., Tauc, L. and Barbin, G.
Potassium channels in mouse neonate dorsal root ganglion cells: a patch-clamp study, **412**, 224
- Simons, C., see Lad, R.P., **423**, 237
- Simpkins, J.W., see Katovich, M.J., **426**, 55
- Sims, N.R., Finegan, J.M., Blass, J.P., Bowen, D.M. and Neary, D.
Mitochondrial function in brain tissue in primary degenerative dementia, **436**, 30
- Sinclair, G.I., see Baas, P.W., **420**, 73
- Singer, W., see Stichel, C.C., **405**, 395
- Sinamon, H.M. and Stopford, C.K.

- Locomotion elicited by lateral hypothalamic stimulation in the anesthetized rat does not require the dorsal midbrain, **402**, 78
- Sinnamon, H.M.
Glutamate and picrotoxin injections into the preoptic basal forebrain initiate locomotion in the anesthetized rat, **400**, 270
- Sircar, R., Rappaport, M., Nichtenhauser, R. and Zukin, S.R.
The novel anticonvulsant MK-801: a potent and specific ligand of the brain phencyclidine/ α -receptor, **435**, 235
- Sirevaag, A.M. and Greenough, W.T.
Differential rearing effects on rat visual cortex synapses. III. Neuronal and glial nuclei, boutons, dendrites, and capillaries, **424**, 320
- Sirinathsinghji, D.J.S.
Inhibitory influence of corticotropin releasing factor on components of sexual behaviour in the male rat, **407**, 185
- Sirinathsinghji, D.J.S.
Suppression of mating behaviour in the male rat by intracerebroventricular infusions of N-methyl-4-phenyl-1,2,3,6-tetrahydropyridine, **407**, 364
- Sirinathsinghji, D.J.S., see Thornton, S.N., **437**, 339
- Siuciak, J.A. and Advokat, C.
Tolerance to morphine microinjections in the periaqueductal gray (PAG) induces tolerance to systemic, but not intrathecal morphine, **424**, 311
- Sivam, S.P., Hudson, P.M., Tilson, H.A. and Hong, J.S.
GABA and dopamine interaction in the basal ganglia: dopaminergic supersensitivity following chronic elevation of brain γ -aminobutyric acid levels, **412**, 29
- Sjöberg, J., see Edström, A., **401**, 34
- Sjöberg, J. and Kanje, M.
Incorporation of [32 P]phosphate into nucleotides of the dorsal root ganglia of regenerating rat sciatic nerve, **415**, 270
- Sjölander, P., see Johansson, H., **435**, 337
- Skagerberg, G., see Wahlestedt, C., **417**, 33
- Skedros, D.G., see Sukin, D., **426**, 82
- Skinner, R.D., see Garcia-Rill, E., **411**, 1
- Skinner, R.D., see Garcia-Rill, E., **411**, 13
- Skirboll, L.R., see Kiss, A., **416**, 129
- Skolnick, P., see Schwartz, R.D., **411**, 151
- Sladek, C.D., see Collier, T.J., **436**, 363
- Sladek, C.D., see Davis, B.J., **405**, 1
- Sladek, C.D., see Earnest, D.J., **422**, 398
- Sladek Jr., J.R., see Collier, T.J., **436**, 363
- Sladek Jr., J.R., see Davis, B.J., **405**, 1
- Sladek Jr., J.R., see Elsworth, J.D., **415**, 293
- Sladek Jr., J.R., see Silverman, W.F., **412**, 375
- Sladky, J.T., Greenberg, J.H. and Brown, M.J.
Enhanced 2-deoxyglucose incorporation in peripheral nerve during ischemia, **414**, 323
- Slater, P., see Cross, A.J., **418**, 343
- Sleeman, M., see Willis, G.L., **403**, 15
- Slikker Jr., W., see Scallet, A.C., **436**, 193
- Slivka, A., Mytilineou, C. and Cohen, G.
Histochemical evaluation of glutathione in brain, **409**, 275
- Slizgi, G.R., see Silvia, R.C., **403**, 52
- Sloan, K.E. and Stevenson, J.A.
Differential distribution of phosphorylated and non-phosphorylated neurofilaments within the retina and optic nerve of hamsters, **437**, 365
- Sloley, B.D., see Juorio, A.V., **426**, 183
- Slomianka, L. and West, M.J.
Asymmetry in the hippocampal region specific for one of two closely related species of wild mice, **436**, 69
- Slotnick, B.M., Graham, S., Laing, D.G. and Bell, G.A.
Detection of propionic acid vapor by rats with lesions of olfactory bulb areas associated with high 2-DG uptake, **417**, 343
- Smirnoff, S.V., see Krishtal, O.A., **436**, 352
- Smith, A., see Ferrell, W.R., **425**, 369
- Smith, Y., see Parent, A., **426**, 397
- Smith, Y., see Parent, A., **436**, 296
- Smith, Y., see Steriade, M., **408**, 372
- Smith, C.B., see Moises, H.C., **400**, 110
- Smith, D.A.S., see Brooks, P.A., **408**, 295
- Smith, D.V., see Sweazey, R.D., **408**, 173
- Smith, E.J., see Donnelly, D.F., **407**, 195
- Smith, G.C., see Willis, G.L., **403**, 15
- Smith, G.E., see Roberts, E., **406**, 357
- Smith, G.N., Hingtgen, J. and DeMyer, W.
Serotonergic involvement in the backward tumbling response of the parlor tumbler pigeon, **400**, 399
- Smith, G.P., see Moran, T.H., **415**, 149
- Smith, J.C., see Evans, D., **409**, 350
- Smith, J.E., see Ebbesson, S.O.E., **405**, 175
- Smith, K.L. and Swann, J.W.
Carbamazepine suppresses synchronized afterdischarging in disinhibited immature rat hippocampus in vitro, **400**, 371
- Smith, P.A., see Shapiro, J., **410**, 186
- Smith, R.S., see Forman, D.S., **412**, 96
- Smith, S.S., Waterhouse, B.D. and Woodward, D.J.
Sex steroid effects on extrahypothalamic CNS. I. Estrogen augments neuronal responsiveness to iontophoretically applied glutamate in the cerebellum, **422**, 40
- Smith, S.S., Waterhouse, B.D. and Woodward, D.J.
Sex steroid effects on extrahypothalamic CNS. II. Progesterone, alone and in combination with estrogen, modulates cerebellar responses to amino acid neurotransmitters, **422**, 52
- Smith, S.S., Waterhouse, B.D., Chapin, J.K. and Woodward, D.J.
Progesterone alters GABA and glutamate responsiveness: a possible mechanism for its anxiolytic action, **400**, 353
- Smith, T.L. and Yamamura, H.I.
Competitive inhibition of phosphoinositide hydrolysis by the muscarinic receptor antagonist AF-DX 116 is of low affinity in mouse cerebral cortex, **420**, 362
- Smith, Y., see Boegman, R.J., **415**, 178
- Smock, T., see Cach, R., **414**, 1
- Smock, T., see Cach, R.L., **421**, 370
- Smock, T., see Toppole, A., **406**, 308
- Snell, L.D., see Zukin, S.R., **416**, 84
- Snowden, J.S., see Palmer, A.M., **414**, 365
- So, K.-F., see Cho, E.Y.P., **419**, 369
- Sobel, D.O.
Characterization of PGE₂ inhibition of corticotropin releasing factor-mediated ACTH release, **411**, 102
- Sobue, G., see Rostami, A., **425**, 205
- Sobue, G., see Yasuda, T., **436**, 113
- Soderlund, D.M., see Stuart, A.M., **437**, 77
- Sofroniew, M.V., Pearson, R.C.A. and Powell, T.P.S.
The cholinergic nuclei of the basal forebrain of the rat: normal structure, development and experimentally induced degeneration, **411**, 310
- Sofroniew, M.V., see Pearson, R.C.A., **411**, 332
- Soghomonian, J.-J., Doucet, G. and Descarries, L.
Serotonin innervation in adult rat neostriatum. I. Quantified regional distribution, **425**, 85
- Soininen, H., see Reinikainen, K.J., **402**, 103
- Soja, P.J., Morales, F.R., Baranyi, A. and Chase, M.H.
Effect of inhibitory amino acid antagonists on IPSPs induced in lumbar motoneurons upon stimulation of the nucleus reticularis gigantocellularis during active sleep, **423**, 353
- Sojka, P., see Johansson, H., **435**, 337
- Sokabe, M., see Fujitsuka, N., **415**, 144
- Sokola, A., see De Simoni, M.G., **411**, 81
- Sokola, A., see De Simoni, M.G., **411**, 89

- Solis, J.M., see Herreras, O., **413**, 75
- Solomon, A., see Lavie, V., **419**, 166
- Solow, E.L., see Sick, T.J., **418**, 227
- Solti, M. and Bartfai, T.
Tachykinin regulation of serotonin release: enhancement of [³H]serotonin release from rat cerebral cortex by neuromedin K and substance P acting at distinct receptor sites, **401**, 377
- Somohano, F., see
López-Colomé, A.M., **414**, 99
- Somoza, G.M., see Kertesz, E., **413**, 10
- Sontag, K.-H., see Turski, L., **424**, 37
- Sontag, K.-H., see Wüllner, U., **422**, 129
- Sørensen, T., Finsen, B. and Zimmer, J.
Nerve connections between mouse and rat hippocampal brain tissue: ultrastructural observations after intracerebral xenografting, **413**, 392
- Sorkin, L.S., see Yeziarski, R.P., **437**, 165
- Soroko, F.E., see Ault, B., **426**, 93
- Sotelo, C., see De Blas, A.L., **413**, 285
- Sotgiu, M.L.
The effects of periaqueductal gray and nucleus raphe magnus stimulation on the spontaneous and noxious-evoked activity of lateral reticular nucleus neurons in rabbits, **414**, 219
- Soubrie, P., Martin, P., El Mestikawy, S. and Hamon, M.
Delayed behavioral response to antidepressant drugs following selective damage to the hippocampal noradrenergic innervation in rats, **437**, 323
- Souchier, C., see Royet, J.P., **417**, 1
- Sparenborg, S., see Gabriel, M., **409**, 151
- Spatz, W.B., Kunz, B. and Steffen, H.
A new heterotopic callosal projection of primary visual cortex in the monkey, *Callithrix jacchus*, **403**, 158
- Speciale, C., Okuno, E. and Schwarcz, R.
Increased quinolinic acid metabolism following neuronal degeneration in the rat hippocampus, **436**, 18
- Speciale, S.G., see Marks, G.A., **418**, 76
- Speciale, S.G., see Sanghera, M.K., **412**, 200
- Speck, D.F.
Supraspinal involvement in the phrenic-to-phrenic inhibitory reflex, **414**, 169
- Spencer Jr., D.G., see Luiten, P.G.M., **413**, 229
- Spencer, P.S., see Nunn, P.B., **410**, 375
- Spencer, P.S., see Oaklander, A.L., **419**, 39
- Spencer, P.S., see Ross, S.M., **425**, 120
- Spencer, R.F., see Beninato, M., **412**, 169
- Sperl, M. and Manteuffel, G.
Directional selectivities of visual afferents to the pretectal neuropil in the fire salamander, **404**, 332
- Spiegel, A., see Lad, R.P., **423**, 237
- Spink, D.C., Porter, T.G., Wu, S.J. and Martin, D.L.
Kinetically different, multiple forms of glutamate decarboxylase in rat brain, **421**, 235
- Sposito, N.M. and Gross, P.M.
Morphometry of individual capillary beds in the hypothalamo-neurohypophysial system of rats, **403**, 375
- Spray, D.C., see Moreno, A.P., **400**, 181
- Springer, J.E., Tayrien, M.W. and Loy, R.
Regional analysis of age-related changes in the cholinergic system of the hippocampal formation and basal forebrain of the rat, **407**, 180
- Sprinkle, T.J., Agee, J.F., Tippins, R.B., Chamberlain, C.R., Faguet, G.B. and DeVries, G.H.
Monoclonal antibody production to human and bovine 2':3'-cyclic nucleotide 3'-phosphodiesterase (CNase): high-specificity recognition in whole brain acetone powders and conservation of sequence between CNP1 and CNP2, **426**, 349
- Squires, R.F. and Saederup, E.
GABA_A receptor blockers reverse the inhibitory effect of GABA on brain-specific [³⁵S]TBPS binding, **414**, 357
- Srebro, B., see Bramham, C.R., **405**, 100
- Sripandikulchai, B. and Wyss, J.M.
The development of α_2 -adrenoceptors in the rat kidney: correlation with noradrenergic innervation, **400**, 91
- Sripandikulchai, K. and Wyss, J.M.
The laminar organization of efferent neuronal cell bodies in the retrosplenial granular cortex, **406**, 255
- St-Pierre, S., see Martel, J.-C., **419**, 403
- Stagg, D., see Kirkwood, P.A., **405**, 187
- Stähle, L., see Brodie, M.S., **415**, 323
- Stair, R.E., see Phillis, J.W., **416**, 171
- Stalla, G.K., see Nikolarakis, K., **421**, 373
- Stanfield, B.B., see Boss, B.D., **406**, 280
- Stanfield, B.B., see Chen, K.S., **410**, 154
- Stanfield, B.B., see Porter, L.L., **436**, 136
- Stanley, E.F.
Light microscopic visualisation of the presynaptic nerve terminal calyx in dissociated chick ciliary ganglion neurons, **421**, 367
- Stanton, T.L., Daley III, J.C. and Salzman, S.K.
Prolongation of hibernation bout duration by continuous intracerebroventricular infusion of melatonin in hibernating ground squirrels, **413**, 350
- Starr, A., see Kano, Y., **419**, 262
- Staubli, U. and Lynch, G.
Stable hippocampal long-term potentiation elicited by 'theta' pattern stimulation, **435**, 227
- Staubli, U., see Roman, F., **418**, 221
- Steel, C.G.H., see Chiang, R.G., **402**, 49
- Steele, A.M., see Cohen, H.L., **426**, 179
- Steele, A.M., see Sica, A.L., **408**, 222
- Steele, J.E., see Taylor, D.C.M., **419**, 352
- Steeves, J.D., Sholomenko, G.N. and Webster, D.M.S.
Stimulation of the pontomedullary reticular formation initiates locomotion in decerebrate birds, **401**, 205
- Steffen, H., see Spatz, W.B., **403**, 158
- Steger, R.W., see
Fernandez-Ruiz, J.J., **421**, 65
- Stehouwer, D.J.
Compensatory eye movements produced during fictive swimming of a deafferented, reduced preparation in vitro, **410**, 264
- Stein, B.E., see Clemo, H.R., **405**, 313
- Stein, C., Morgan, M.M. and Liebeskind, J.C.
Barbiturate-induced inhibition of a spinal nociceptive reflex: role of GABA mechanisms and descending modulation, **407**, 307
- Stein, D.G., see Mufson, E.J., **401**, 162
- Stein, E.A., see Blake, M.J., **413**, 111
- Stein, E.A., see Blake, M.J., **435**, 181
- Stein, E.A., see Trusk, T.C., **406**, 238
- Steinbusch, H.W.M., see Berkenbosch, F., **405**, 353
- Steinbusch, H.W.M., see De Vente, J., **411**, 120
- Steinbusch, H.W.M., see Wouterlood, F.G., **406**, 330
- Steinman, J.L., Carlton, S.M., Haber, B. and Willis, W.D.
Differential effects of *p*-chlorophenylalanine on indoleamines in brainstem nuclei and spinal cord of rats. I. Biochemical and behavioral analysis, **426**, 297
- Steinman, J.L., see Carlton, S.M., **426**, 310
- Steinmann, M.W., see Olpe, H.R., **412**, 269
- Steisslinger, H.W., Aloyo, V.J. and Vitković, L.
Characterization of two plasma membrane proteins abundant in rat brain, **415**, 375
- Stengaard-Pedersen, K., see Fredens, K., **401**, 68
- Steriade, M., Parent, A., Paré, D. and Smith, Y.
Cholinergic and non-cholinergic neurons of cat basal forebrain

- project to reticular and mediodorsal thalamic nuclei, **408**, 372
- Sternberger, L.A., see Shiurba, R.A., **407**, 205
- Sternberger, N.H., see Shiurba, R.A., **407**, 205
- Stevens, B.R., Raizada, M., Sumners, C. and Fernandez, A. Dipeptidyl peptidase-II activity in cultured astroglial cells from neonatal rat brain, **406**, 113
- Stevens, C.W. and Yaksh, T.L. Chronic antagonist infusion does not increase morphine antinociception in rat spinal cord, **425**, 388
- Stevens, C.W., Pezalla, P.D. and Yaksh, T.L. Spinal antinociceptive action of three representative opioid peptides in frogs, **402**, 201
- Stevens, D.R., see Harris, E.W., **418**, 361
- Stevenson, J.A., see Sloan, K.E., **437**, 365
- Stevenson, J.H., see Tildon, J.T., **403**, 127
- Steward, O., see Sutula, T., **420**, 109
- Steward, O., see Busciglio, J., **419**, 244
- Stewart, J., see Vezina, P., **417**, 51
- Stewart, D.J. and Vanderwolf, C.H. Hippocampal rhythmical slow activity following ibotenic acid lesions of the septal region. I. Relations to behavior and effects of atropine and urethane, **423**, 88
- Stewart, D.J. and Vanderwolf, C.H. Hippocampal rhythmical slow activity following ibotenic acid lesions of the septal region. II. Changes in hippocampal activity during sleep, **423**, 101
- Stewart, J.M., see Hall, M.E., **420**, 82
- Stewart, M.G., Csillag, A. and Rose, S.P.R. Alterations in synaptic structure in the paleostriatal complex of the domestic chick, *Gallus domesticus*, following passive avoidance training, **426**, 69
- Stewart, M.G., see Chmielowska, J., **425**, 283
- Stewart, M.G., see Csillag, A., **437**, 283
- Stewart, W.B. and Pedersen, P.E. The spatial organization of olfactory nerve projections, **411**, 248
- Stichel, C.C., Dolabela de Lima, A. and Singer, W. A search for choline acetyltransferase-like immunoreactivity in neurons of cat striate cortex, **405**, 395
- Stieber, A., Gonatas, J.O., Gonatas, N.K. and Louvard, D. The Golgi apparatus-complex of neurons and astrocytes studied with an anti-organelle antibody, **408**, 13
- Stöcklin, G., see Drewes, L.R., **401**, 55
- Stone, R.A., see Kuwayama, Y., **405**, 220
- Stone, T.W., see Brooks, P.A., **408**, 295
- Stoof, J.C., Russchen, F.T., Verheijden, P.F.H.M. and Hoogland, P.V.J.M. A comparative study of the dopamine-acetylcholine interaction in telencephalic structures of the rat and of a reptile, the lizard *Gekko gekko*, **404**, 273
- Stoof, J.C., see Plantjé, J.F., **413**, 205
- Stoof, J.C., see Radhakishun, F.S., **426**, 235
- Stoof, J.C., Verheijden, P.F.H.M. and Leysen, J.E. Stimulation of D₂-receptors in rat nucleus accumbens slices inhibits dopamine and acetylcholine release but not cyclic AMP formation, **423**, 364
- Stopa, E., see Albers, H.E., **437**, 189
- Stopford, C.K., see Sinnamon, H.M., **402**, 78
- Storm, J.F. Intracellular injection of a Ca²⁺ chelator inhibits spike repolarization in hippocampal neurons, **435**, 387
- Storm-Mathisen, J., see Kosaka, K., **403**, 355
- Strassman, A., Mason, P., Eckenstein, F., Baughman, R.W. and Maciewicz, R. Choline acetyltransferase immunocytochemistry of Edinger-Westphal and ciliary ganglion afferent neurons in the cat, **423**, 293
- Strassman, A., see Chung, R.Y., **403**, 172
- Stratton, S.E., see Sukin, D., **426**, 82
- Strausbaugh, L.J. Intracarotid infusions of protamine sulfate disrupt the blood-brain barrier of rabbits, **409**, 221
- Strehler, B.L., see Lestienne, R., **437**, 214
- Strick, P.L., see Martino, A.M., **404**, 307
- Stritzel, M.E., see Pritz, M.B., **409**, 146
- Strömberg, I., see Sundström, E., **405**, 26
- Stuart, A.M., Bloomquist, J.R. and Soderlund, D.M. Pharmacological characterization of the voltage-dependent sodium channels of rainbow trout brain synaptosomes, **437**, 77
- Studholme, K.M., see Yazulla, S., **411**, 400
- Stumpf, W.E., see Duncan, G.E., **401**, 43
- Su, H.-S., Peng, Z.-C. and Li, Y.-W. Distribution of catecholamine-containing cell bodies in the human diencephalon, **409**, 367
- Su, Y.Y.T. and Watt, C.B. Interaction between enkephalin and dopamine in the avian retina, **423**, 63
- Suarez, I., see Tranque, P.A., **406**, 348
- Suarez Nuñez, J.M., see Segade, L.A.G., **411**, 386
- Suarez Quintanilla, D., see Segade, L.A.G., **411**, 386
- Suda, Y., see Pan-Hou, H., **418**, 198
- Suda, T., Tomori, N., Yajima, F., Sumitomo, T., Nakagami, Y., Ushiyama, T., Demura, H. and Shizume, K. Time course study on the effect of reserpine on hypothalamic immunoreactive CRF levels in rats, **405**, 247
- Sugaya, E., Asou, H., Itoh, K., Ishige, A., Sekiguchi, K., Iizuka, S., Sugimoto, A., Aburada, M., Hosoya, E., Takagi, T., Kajiwar, K., Komatsubara, J., and Hirano, S. Characteristics of primary cultured neurons from embryonic mutant El mouse cerebral cortex, **406**, 270
- Sugaya, E., Furuichi, H., Takagi, T., Kajiwar, K. and Komatsubara, J. Intracellular calcium concentration during pentylentetrazol-induced bursting activity in snail neurons, **416**, 183
- Sugimoto, A., see Sugaya, E., **406**, 270
- Sugimoto, T. and Mizuno, N. Quinolinic and kainic acids can enhance calcitonin gene-related peptide-like immunoreactivity in striatal neurons with substance P-like immunoreactivity, **418**, 392
- Sugimoto, T., see Uemura, Y., **416**, 200
- Sugino, H., see Maruyama, M., **401**, 14
- Sugitani, M., see Wakakuwa, K., **404**, 211
- Sukin, D., Skedros, D.G., Beales, M., Stratton, S.E., Lorden, J.F. and Oltmans, G.A. Temporal sequence of motor disturbances and increased cerebellar glutamic acid decarboxylase activity following 3-acetylpyridine lesions in adult rats, **426**, 82
- Sullivan, A.F., see Dickenson, A.H., **408**, 185
- Sullivan, A.F., see Dickenson, A.H., **413**, 36
- Sullivan, M.J., see Wright, J.W., **420**, 289
- Sullivan, R.M., see Ray, A., **409**, 398
- Sullivan, S.J. and Hayes, K.C. Changes in short and long latency stretch reflexes prior to movement initiation, **412**, 139
- Sumitomo, I. and Iwama, K. Neuronal organization of rat thalamus for processing information of vibrissal movements, **415**, 389
- Sumitomo, I., see Wakakuwa, K., **404**, 211
- Sumitomo, T., see Suda, T., **405**, 247
- Summerlee, A.J.S., see O'Byrne, K.T., **405**, 80
- Sumners, C., see Bottiglieri, D.F., **403**, 167
- Sumners, C., see Hermann, K., **437**, 205

- Sumners, C., see Stevens, B.R., **406**, 113
- Sun, X., Jen, P.H.-S. and Zhang, W. Auditory spatial response areas of single neurons and space representation in the cerebellum of echo locating bats, **414**, 314
- Sun, X., see Jen, P.H.-S., **419**, 7
- Sun, X., see Zhang, S., **416**, 375
- Sundler, F., see Wahlestedt, C., **417**, 33
- Sundström, E., Strömberg, I., Tsutsumi, T., Olson, L. and Jonsson, G. Studies on the effect of 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP) on central catecholamine neurons in C57 BL/6 mice. Comparison with three other strains of mice, **405**, 26
- Sundt Jr., T.M., see Kim, P., **402**, 87
- Sunkel, C., see Inestrosa, N.C., **416**, 248
- Šušić, V., Maši, G. and Totić, S. The effects of delta-sleep-inducing peptide (DSIP) on wakefulness and sleep patterns in the cat, **414**, 262
- Sutoo, D., Akiyama, K. and Takita, H. The relationship between metal ion levels and biogenic amine levels in epileptic mice, **418**, 205
- Sutula, T. and Steward, O. Facilitation of kindling by prior induction of long-term potentiation in the perforant path, **420**, 109
- Suzuki, K., see Kondo, A., **425**, 186
- Suzuki, J., see Tominaga, T., **402**, 370
- Sved, A.F. and Felsten, G. Stimulation of the locus coeruleus decreases arterial pressure, **414**, 119
- Sved, A.F., see Catelli, J.M., **403**, 279
- Svendgaard, N.-A., see Sahlin, C., **403**, 313
- Svennerholm, L., see Davidsson, P., **412**, 254
- Svensson, B.A., Griph, S., Rastad, J. and Westman, J. Quantitative ultrastructural study of boutons of ascending afferents to the feline lateral cervical nucleus, **423**, 229
- Svoboda, P., see Vyskočil, F., **436**, 85
- Swaab, D.F., see Roozendaal, B., **409**, 259
- Swann, A.C. and Gottesfeld, Z. Deafferentation elicits a transient decrease in Na^+ , K^+ -ATPase activity and ouabain binding in the olfactory tubercle, **404**, 323
- Swann, J.W., see Smith, K.L., **400**, 371
- Swanson, L.W., Mogenson, G.J., Simerly, R.B. and Wu, M. Anatomical and electrophysiological evidence for a projection from the medial preoptic area to the 'mesencephalic and subthalamic locomotor regions' in the rat, **405**, 108
- Swanson, L.W., see Rho, J.-H., **436**, 143
- Swanson, L.W., see Simerly, R.B., **400**, 11
- Swanson, R.A., see Sagar, S.M., **417**, 172
- Swartzwelder, H.S., Lewis, D.V., Anderson, W.W. and Wilson, W.A. Seizure-like events in brain slices: suppression by interictal activity, **410**, 362
- Sweatt, A.J., see O'Steen, W.K., **426**, 37
- Sweazey, R.D. and Smith, D.V. Convergence onto hamster medullary taste neurons, **408**, 173
- Swenberg, M.-L., Buck, S.H. and Lovenberg, W. Development of an anti-idiotypic antibody that blocks substance P primary antibodies and substance P membrane binding, **417**, 131
- Swerdlow, N.R. and Koob, G.F. Lesions of the dorsomedial nucleus of the thalamus, medial prefrontal cortex and pedunculopontine nucleus: effects on locomotor activity mediated by nucleus accumbens-ventral pallidal circuitry, **412**, 233
- Szabo, T., see Bissoli, R., **405**, 380
- Szabó, G., see Laczi, F., **403**, 155
- Szamraj, O., see Olsen, R.W., **402**, 243
- Szente, M. and Baranyi, A. Mechanism of aminopyridine-induced ictal seizure activity in the cat neocortex, **413**, 368
- Szente, M.B., see Baranyi, A., **423**, 378
- Szente, M.B., see Baranyi, A., **424**, 396
- Szerb, J.C. and Issekutz, B. Increase in the stimulation-induced overflow of glutamate by fluoroacetate, a selective inhibitor of the glial tricarboxylic cycle, **410**, 116
- Szerdahelyi, P. and Kása, P. Partial depletion and altered distribution of synaptic zinc in the rat hippocampus after treatment with sodium diethyldithiocarbamate, **422**, 287
- Szikszay, M., see Fanelli, R.J., **422**, 257
- Szulczyk, P., see Szulczyk, A., **421**, 127
- Szulczyk, A. and Szulczyk, P. Spinal segmental preganglionic outflow to cervical sympathetic trunk and postganglionic cardiac sympathetic nerves, **421**, 127
- Taché, Y., see Gunion, M.W., **411**, 156
- Taché, Y., see Gunion, M.W., **422**, 118
- Tadokoro, Y., see Negoro, H., **404**, 371
- Taga, K., see Shimoji, K., **408**, 385
- Taghzouti, K., see Oades, R.D., **406**, 136
- Taghzouti, K., see Onténiente, B., **421**, 391
- Tago, H., McGeer, P.L. and McGeer, E.G. Acetylcholinesterase fibers and the development of senile plaques, **406**, 363
- Tago, H., McGeer, P.L., Bruce, G. and Hersh, L.B. Distribution of choline acetyltransferase-containing neurons of the hypothalamus, **415**, 49
- Tago, H., see Beach, T.G., **408**, 251
- Taguchi, H., Masuda, T. and Yokota, T. Cardiac sympathetic afferent input onto neurons in nucleus ventralis posterolateralis in cat thalamus, **436**, 240
- Taira, K. Characteristics of periodontal mechanosensitive neurons in the first somatosensory cortex of the cat, **409**, 52
- Taira, K. The representation of the oral structures in the first somatosensory cortex of the cat, **409**, 41
- Taiwo, Y.O., Goetzl, E.J. and Levine, J.D. Hyperalgesia onset latency suggests a hierarchy of action, **423**, 333
- Takabatake, I., see Hirata, T., **422**, 374
- Takada, M. and Hattori, T. Organization of ventral tegmental area cells projecting to the occipital cortex and forebrain in the rat, **418**, 27
- Takada, M. and Hattori, T. The rat striatum: a target nucleus for ascending axon collaterals of the entopedunculo-habenular pathway, **418**, 129
- Takada, M., Li, Z.K. and Hattori, T. Long descending direct projection from the basal ganglia to the spinal cord: a revival of the extrapyramidal concept, **436**, 129
- Takada, M., see Itoh, K., **400**, 145
- Takagi, H., see Oku, R., **403**, 350
- Takagi, H., see Ueda, H., **419**, 197
- Takagi, H., see Ueda, H., **425**, 101
- Takagi, H., see Kawai, Y., **401**, 371
- Takagi, T., see Sugaya, E., **406**, 270
- Takagi, T., see Sugaya, E., **416**, 183
- Takahashi, T., see Takenoshita, M., **402**, 303
- Takahashi, E.S., see Oyster, C.W., **425**, 25
- Takahashi, H., see Oyanagi, K., **411**, 205
- Takahashi, J.S. and Turek, F.W. Anisomycin, an inhibitor of protein synthesis, perturbs the phase of a mammalian circadian pacemaker, **405**, 199
- Takahashi, J.S., see Keefe, D.L., **403**, 308
- Takahashi, L.K. and Lisk, R.D. Diencephalic organization of

- estradiol sensitive sites regulating sociosexual behavior in female golden hamsters: contralateral versus ipsilateral activation, **425**, 337
- Takahashi, O., see Tashiro, T., **424**, 391
- Takahata, Y., see Shimoji, K., **408**, 385
- Takaori, S., see Akaike, A., **418**, 262
- Takaori, S., see Sasa, M., **420**, 157
- Takaori, S., see Ujihara, H., **418**, 52
- Takata, M. and Tomomune, N.
Properties of stereotyped series of postsynaptic potentials in hypoglossal motoneurons, **426**, 358
- Takayama, H., Mizukawa, K., Ota, Z. and Ogawa, N.
Regional responses of rat brain muscarinic cholinergic receptors to immobilization stress, **436**, 291
- Takayanagi, N., see Yamada, S., **410**, 212
- Takei, K., Oka, Y., Satou, M. and Ueda, K.
Distribution of motoneurons involved in the prey-catching behavior in the Japanese toad, *Bufo japonicus*, **410**, 395
- Takenaka, T., see Horie, H., **411**, 298
- Takenaka, T., see Horie, H., **420**, 144
- Takenoshita, M. and Takahashi, T.
Mechanisms of halothane action on synaptic transmission in motoneurons of the newborn rat spinal cord in vitro, **402**, 303
- Takeuchi, H., see Oka, Y., **400**, 389
- Takita, H., see Sutoo, D., **418**, 205
- Tal, M.
Neural basis for initiation of rhythmic digastric activity upon midbrain stimulation in the guinea pig, **411**, 58
- Taljaard, J.J.F., see Jaffer, A., **404**, 267
- Taljaard, J.J.F., see Reyneke, L., **425**, 114
- Taljaard, J.J.F., see Russell, V.A., **410**, 78
- Tallman, J.F., see Kehne, J.H., **406**, 87
- Tamai, Y., see Nakai, M., **414**, 91
- Tamamaki, N. and Nojyo, Y.
Intracranial trajectories of sympathetic nerve fibers originating in the superior cervical ganglion in the rat: WGA-HRP anterograde labeling study, **437**, 387
- Tamamaki, N., Abe, K. and Nojyo, Y.
Columnar organization in the subiculum formed by axon branches originating from single CA₁ pyramidal neurons in the rat hippocampus, **412**, 156
- Tamborska, E., see Marangos, P.J., **421**, 69
- Tamura, S., see Ueda, H., **425**, 101
- Tanaka, C., see Kumoi, K., **416**, 22
- Tang, A.H., see Piercey, M.F., **424**, 1
- Tang, A.H., see Silvia, R.C., **403**, 52
- Tang, L.C.
The modulation of dopamine-sensitive adenylate cyclase activity in the mouse caudate nucleus by estradiol, **405**, 178
- Tanii, Y., see Minabe, Y., **408**, 286
- Tanimoto, M. and Okada, Y.
The protective effect of hypothermia on hippocampal slices from guinea pig during deprivation of oxygen and glucose, **417**, 239
- Tannenbaum, G.S., see Goltzman, D., **416**, 1
- Tapia, R., see Morales, E., **420**, 11
- Taquet, H., Javoy-Agid, F., Mauborgne, A., Benoliel, J.J., Agid, Y., Legrand, J.C., Hamon, M. and Cesselin, F.
Brain neuropeptides in progressive supranuclear palsy, **411**, 178
- Tarjan, E., see Weisinger, R.S., **420**, 135
- Tasaki, I. and Byrne, P.M.
Heat production associated with synaptic transmission in the bullfrog spinal cord, **407**, 386
- Tashiro, T., Takahashi, O., Satoda, T., Matsushima, R. and Mizuno, N.
Immunohistochemical demonstration of coexistence of enkephalin- and substance P-like immunoreactivities in axonal components in the lumbar segments of cat spinal cord, **424**, 391
- Tassinari, G., see Minciaccchi, D., **410**, 21
- Tateishi, J., see Inoue, T., **414**, 309
- Tateishi, J., see Kondo, A., **412**, 73
- Tateishi, K., see Kosaka, T., **409**, 403
- Tator, C.H., see Midha, R., **410**, 299
- Tatsuoka, Y., Riskind, P.N., Beal, M.F. and Martin, J.B.
The effect of amphetamine on the in vivo release of dopamine, somatostatin and neuropeptide Y from rat caudate nucleus, **411**, 200
- Tattersall, J.E.H., Cervero, F. and Plenderleith, M.B.
Distribution of sural nerve afferent fibres within the dorsal horn of adult rats treated at birth with capsaicin, **416**, 337
- Taube, J.S. and Schwartzkroin, P.A.
Intracellular recording from hippocampal CA₁ interneurons before and after development of long-term potentiation, **419**, 32
- Tauc, L., see Meulemans, A., **414**, 158
- Tauc, L., see Poulain, B., **435**, 63
- Tauc, L., see Simonneau, M., **412**, 224
- Tautz, J.
Interneurons in the tritocerebrum of the crayfish, **407**, 230
- Tavani, A., see Esposito, E., **436**, 25
- Tavares, M.A., see Paula-Barbosa, M., **417**, 139
- Taylor, D.C.M., Steele, J.E. and Gayton, R.J.
An analysis of the responses of rat striatal neurones to scrotal skin temperature, **419**, 352
- Tayrien, M.W., see Springer, J.E., **407**, 180
- Tegnér, R., see Brismar, T., **423**, 135
- Tehovnik, E.J. and Yeomans, J.S.
Circling elicited from the anteromedial cortex and medial pons: refractory periods and summation, **407**, 240
- Teisinger, J., see Vyskočil, F., **436**, 85
- Teitelbaum, H., see Mickley, G.A., **424**, 239
- Telegdy, G., see Laczi, F., **403**, 155
- Telford, N.A., see Osterburg, H.H., **409**, 31
- Teng, H., see Jen, P.H.-S., **419**, 7
- Tenke, C.E., see Arezzo, J.C., **401**, 7
- Tentler, J., see Emanuele, N.V., **421**, 255
- Terakawa, S. and Nagano, M.
Visualization of secretory activities in the *Xenopus* neurohypophysis by a high S/N video camera, **435**, 380
- Teramura, M., see Yoshida, M., **410**, 169
- Terashima, T., Katada, T., Oinuma, M., Inoue, Y. and Ui, M.
Endocrine cells in pancreatic islets of Langerhans are immunoreactive to antibody against guanine nucleotide-binding protein (G_o) purified from rat brain, **417**, 190
- Terashima, T., Katada, T., Oinuma, M., Inoue, Y. and Ui, M.
Immunohistochemical localization of guanine nucleotide-binding protein in rat retina, **410**, 97
- Terashima, T., Katada, T., Okada, E., Ui, M. and Inoue, Y.
Light microscopy of GTP-binding protein (G_o) immunoreactivity within the retina of different vertebrates, **436**, 384
- Terenghi, G., see Kuwayama, Y., **405**, 220
- Terenius, L., see Millhorn, D.E., **424**, 99
- Terry, L.C., see Casey, K.L., **408**, 377
- Teuchert, G., see Ehrlich, D., **415**, 342
- Thach, W.T., see Mink, J.W., **417**, 393
- Thanos, S., Vidal-Sanz, M. and Aguayo, A.J.
The use of rhodamine-B-isothiocyanate (RITC) as an anterograde and retrograde tracer in the adult rat visual system, **406**, 317
- Thesleff, S., see Molgo, J., **410**, 385
- Thickbroom, G.W. and Mastaglia, F.L.
Presaccadic spike potential: a computer model based upon motor unit recruitment patterns in the extraocular muscles, **422**, 377
- Thiele, G. and Meissl, H.
Action spectra of the lateral eyes recorded from mammalian pineal glands, **424**, 10
- Thierry, A.M., see Ferino, F., **417**, 257
- Thomalske, G., see Schlandler, M., **401**, 185
- Thomas, G.J., see Messer Jr., W.S., **407**, 37
- Thomas, G.J., see Messer Jr., W.S., **407**, 46
- Thomas, H.C. and Espinoza, S.G.
Relationships between interhemispheric cortical connections and visual areas in hooded rats, **417**, 214

- Thomasset, M., see Sans, A., **435**, 293
 Thomasset, M., see Rami, A., **422**, 149
 Thompson, A.M. and Thompson, G.C.
 Efferent projections from
 posteroventral cochlear nucleus to
 lateral superior olive in guinea pig,
421, 382
 Thompson, G.C., see
 Thompson, A.M., **421**, 382
 Thompson, G.C., see Usami, S.-I.,
417, 367
 Thompson, G.C., see Usami, S.-I.,
418, 383
 Thompson, M.L., see Miller, L.G.,
414, 395
 Thompson, R.F., see Mauk, M.D.,
403, 89
 Thorell, G., see Ahlenius, S., **402**, 131
 Thornton, J.E., see Bonneau, M.,
413, 104
 Thornton, J.E., see Luine, V.N.,
426, 47
 Thornton, S.N., Sharman, D.F. and
 Baldwin, B.A.
 Intracerebroventricular dopamine
 attenuates sodium-induced but not
 angiotensin-induced drinking in
 minipigs, **410**, 401
 Thornton, S.N., Sirinathsinghi, D.J.S.
 and Delaney, C.E.
 The effects of a reversible
 colchicine-induced lesion of the
 anterior ventral region of the third
 cerebral ventricle in rats, **437**, 339
 Ticku, M.K., see Frey, J.M., **425**, 73
 Tilders, F.J.H., see De Vente, J.,
411, 120
 Tildon, J.T., Stevenson, J.H. and
 Roeder, L.M.
 Serum effects on substrate oxidation
 by dissociated brain cells: possible
 sites of action, **403**, 127
 Tilson, H.A., Rogers, B.C.,
 Grimes, L., Harry, G.J.,
 Peterson, N.J., Hong, J.S. and
 Dyer, R.S.
 Time-dependent neurobiological
 effects of colchicine administered
 directly into the hippocampus of
 rats, **408**, 163
 Tilson, H.A., see Sivam, S.P., **412**, 29
 Tippins, R.B., see Sprinkle, T.J.,
426, 349
 Tizabi, Y., see Gilad, G.M., **436**, 311
 Todd, K., see Hughes, A.M., **414**, 133
 Todd, R.D. and Ciaranello, R.D.
 Multiple high-affinity [³H]serotonin
 binding sites in human frontal
 cortex, **400**, 247
 Toews, A.D., see Armstrong, R.,
412, 196
 Tohyama, M., see Fujii, S., **401**, 1
 Tohyama, M., see Hamaji, M.,
416, 192
 Tohyama, M., see Kawai, Y., **401**, 371
 Tohyama, M., see Kawai, Y., **409**, 371
 Tohyama, M., see Kubota, Y., **413**, 179
 Tohyama, M., see Kubota, Y., **415**, 385
 Tohyama, M., see Lee, Y., **407**, 149
 Tohyama, M., see Matsuyama, T.,
418, 325
 Tohyama, M., see Nomura, H.,
404, 365
 Tohyama, M., see Shimada, S.,
425, 256
 Tohyama, M., see Wanaka, A., **435**, 91
 Tohyama, M., see Yamano, M.,
408, 22
 Tohyama, I., see Hara, K., **410**, 371
 Tohyama, M., see
 Ando-Yamamoto, M., **410**, 269
 Tohyama, M., see Inagaki, N.,
402, 197
 Tohyama, M., see Inagaki, N.,
418, 388
 Tohyama, M., see Shinoda, K.,
409, 181
 Tokuno, H. and Nakamura, Y.
 Organization of the nigroreticulospinal
 pathway in the cat: a light and
 electron microscopic study, **436**, 76
 Tokutomi, N., see Oyama, Y., **417**, 143
 Tolliver, J.M. and Pellmar, T.C.
 Dithiothreitol elicits epileptiform
 activity in CA₁ of the guinea pig
 hippocampal slice, **404**, 133
 Tomimoto, H., Kamo, H.,
 Kameyama, M., McGeer, P.L. and
 Kimura, H.
 Descending projections of the basal
 forebrain in the rat demonstrated by
 the anterograde neural tracer
Phaseolus vulgaris leucoagglutinin
 (PHA-L), **425**, 248
 Tominaga, T., Imaizumi, S.,
 Yoshimoto, T., Suzuki, J. and
 Fujita, Y.
 Application of spin-trapping study
 to rat ischemic brain homogenate
 incubated with NADPH and
 Fe-EDTA, **402**, 370
 Tomita, T., see Yamada, S., **410**, 212
 Tomlinson, D.R., see Robinson, J.P.,
426, 339
 Tomomune, N., see Takata, M.,
426, 358
 Tomonaga, M., see Ikeda, K., **435**, 348
 Tomono, S., see Kuriyama, K., **416**, 7
 Tomori, N., see Suda, T., **405**, 247
 Tonnaer, J.A.D.M., see Hagan, J.J.,
410, 69
 Topple, A., Purvis, R., Smock, T. and
 Popejoy, S.
 Vasoconstriction and neural
 excitation in response to transient
 hypoxia in the rat hippocampal slice,
406, 308
 Toran-Allerand, C.D., see
 Hauser, K.F., **406**, 62
 Tortella, F.C., see Long, J.B., **402**, 155
 Totić, S., see Šušić, V., **414**, 262
 Totmar, O., see Nilsson, G.E.,
409, 374
 Totmar, O., see Nilsson, G.E.,
409, 265
 Touret, M., see Geffard, M., **426**, 191
 Townsend, C.M., see Hsu, L.L.,
417, 232
 Toyama, K., see Hamasaki, T.,
422, 172
 Toyka, K.V., see Hartung, H.-P.,
417, 347
 Toyka, K.V., see Hartung, H.-P.,
435, 367
 Toyoshima, T., see Ozaki, H.S.,
400, 239
 Toyota, T., see Shimosegawa, T.,
406, 341
 Traber, J., see Wree, A., **436**, 283
 Traber, J., see Luiten, P.G.M.,
413, 229
 Trabucchi, M., see Rius, R.A.,
402, 359
 Tranchand-Bunel, D., see
 Delbende, C., **423**, 203
 Tranchand-Bunel, D., see Jégou, S.,
413, 259
 Tranque, P., see Olmos, G., **425**, 57
 Tranque, P.A., Suarez, I., Olmos, G.,
 Fernandez, B. and
 Garcia-Segura, L.M.
 Estradiol — induced redistribution
 of glial fibrillary acidic protein
 immunoreactivity in the rat brain,
406, 348
 Travis, M.A. and Hall, E.D.
 The effects of chronic two-fold
 dietary vitamin E supplementation
 on subarachnoid
 hemorrhage-induced brain
 hypoperfusion, **418**, 366
 Tremblay, E., see Represa, A.,
423, 325
 Tremblay, J.P., see Robitaille, R.,
408, 353
 Tremblay, L., see Ward, R., **424**, 84
 Tresham, J.J., see Wang, X., **436**, 199
 Triarhou, L.C., see Low, W.C.,
435, 315
 Tribollet, E., see Dubois-Dauphin, M.,
437, 151
 Trojanowski, J.Q., see Kuwayama, Y.,
405, 220
 Trombley, P.Q., see Allen, E.E.,
401, 397
 Trontelj, J.V., see Zidar, J., **422**, 196
 Trusk, T.C. and Stein, E.A.
 Effect of intravenous heroin and
 naloxone on regional cerebral blood
 flow in the conscious rat, **406**, 238
 Trzebski, A., see Lawing, W.L.,
435, 322
 Tseng, M.T., see Schurr, A., **421**, 135
 Tsin, A.T.C., see Vaughan, M.K.,
417, 321
 Tsubaki, S.I., Brightman, M.W.,
 Nakagawa, H., Owens, E. and
 Blasberg, R.G.
 Local blood flow and vascular
 permeability of autonomic
 ganglion-transplants in the brain,
424, 71
 Tsuboyama, G.K., see
 Haroutunian, V., **403**, 234
 Tsuda, Y., see Oyama, Y., **424**, 58
 Tsukada, M., see Sandner, G.,
421, 150
 Tsunoo, A. and Narahashi, T.
 Cyclic nucleotide potentiation of
 muscarinic responses in
 neuroblastoma cells, **407**, 55
 Tsunoo, A., see Yoshii, M., **424**, 119
 Tsuru, K., see Yoshida, A., **416**, 393
 Tsutsumi, M., see Minabe, Y., **408**, 286
 Tsutsumi, T., see Sundström, E.,
405, 26

- Tuchek, J.M., see Pedder, S.C.J., **424**, 139
- Tuckett, R.P. and Wei, J.Y.
Response to an itch-producing substance in cat. I. Cutaneous receptor populations with myelinated axons, **413**, 87
- Tuckett, R.P. and Wei, J.Y.
Response to an itch-producing substance in cat. II. Cutaneous receptor populations with unmyelinated axons, **413**, 95
- Tumilasci, O.R., see Pazo, J.H., **414**, 405
- Tumosa, N., see Famiglietti, E.V., **413**, 398
- Tung, N.N., Morgan, I.G. and Ehrlich, D.
Intravitreal kainic acid severely reduces the size of the developing optic tectum in newly hatched chickens, **435**, 153
- Turcotte, J., see Blaustein, J.D., **436**, 253
- Turek, F.W., see Keefe, D.L., **403**, 308
- Turek, F.W., see Takahashi, J.S., **405**, 199
- Turlejski, K., see Boss, B.D., **406**, 280
- Turner, B.H., see Wilson, J.S., **423**, 329
- Turner, J.E., Blair, J.R. and Chappel, E.T.
Peripheral nerve implant effects on survival of retinal ganglion layer cells after axotomy initiated by a penetrating lesion, **419**, 46
- Turpaev, T.M., see Salimova, N.B., **400**, 285
- Turski, L., see Cavalheiro, E.A., **411**, 370
- Turski, L., Klockgether, T., Turski, W., Schwarz, M. and Sontag, K.-H.
Substantia nigra and motor control in the rat: effect of intranigral α -kainate and γ -D-glutamylaminomethylsulphonate on motility, **424**, 37
- Turski, W., see Turski, L., **424**, 37
- Turski, W.A., Herrling, P.L. and Do, K.Q.
Effects of L-cysteine-sulphinate and L-aspartate, mixed excitatory amino acid agonists, on the membrane potential of cat caudate neurons, **414**, 330
- Tyrer, N.M., see Lutz, E.M., **407**, 173
- Tytell, M., see Gower, D.J., **407**, 1
- neurons by the visual Wulst stimulation, **406**, 322
- Uchizono, K., see Obata, K., **404**, 169
- Ude, J., see Holets, V.R., **408**, 141
- Ueda, K., see Oka, Y., **400**, 383
- Ueda, K., see Oka, Y., **400**, 389
- Ueda, K., see Takei, K., **410**, 395
- Ueda, H., Fukushima, N., Yoshihara, Y. and Takagi, H.
A Met-enkephalin releaser (kyotorphin)-induced release of plasma membrane-bound Ca^{2+} from rat brain synaptosomes, **419**, 197
- Ueda, H., Tamura, S., Satoh, M. and Takagi, H.
Excess release of substance P from the spinal cord of mice during morphine withdrawal and involvement of the enhancement of presynaptic Ca^{2+} entry, **425**, 101
- Ueda, Y., see Fujii, S., **401**, 1
- Ueki, S., see Kataoka, Y., **416**, 243
- Uemura, E., see Scallet, A.C., **436**, 193
- Uemura, T., Yamashita, T., Haga, C., Miyazaki, N., Kondo, H. and Matsushita, M.
Localization of serotonin-immunoreactivity in the central nervous system of *Octopus vulgaris* by immunohistochemistry, **406**, 73
- Uemura, Y., Sugimoto, T., Nomura, S., Nagatsu, I. and Mizuno, N.
Tyrosine hydroxylase-like immunoreactivity and catecholamine fluorescence in ciliary ganglion neurons, **416**, 200
- Uesugi, S., see Yamashita, H., **416**, 364
- Ugolini, G., Kuypers, H.G.J.M. and Simmons, A.
Retrograde transneuronal transfer of Herpes simplex virus type 1 (HSV 1) from motoneurons, **422**, 242
- Ui, M., see Miwa, A., **416**, 162
- Ui, M., see Terashima, T., **410**, 97
- Ui, M., see Terashima, T., **417**, 190
- Ui, M., see Terashima, T., **436**, 384
- Ujihara, H., Sasa, M., Fujita, Y. and Takaori, S.
Opioid-mediated inhibition from the subnucleus caudalis of spinal trigeminal nucleus to the neurons in the subnucleus oralis, **418**, 52
- Ulenkate, H.J.L.M., see Versteeg, D.H.G., **416**, 343
- Ulfhake, B., Cullheim, S., Hökfelt, T. and Visser, T.J.
The combined use of immunohistochemistry and intracellular staining with horseradish peroxidase for light and electron microscopic studies of transmitter-identified inputs to functionally characterized neurons, **419**, 387
- Uncini, A., see Wu, W.-H., **401**, 407
- Underwood, M.D., see Arnerić, S.P., **411**, 212
- Ungar-Sargon, J. and Goldberger, M.E.
Maintenance of specificity by sprouting and regenerating peripheral nerves. I. Normal variability, **407**, 117
- Ungar-Sargon, J. and Goldberger, M.E.
Maintenance of specificity by sprouting and regenerating peripheral nerves. II. Variability after lesions, **407**, 124
- Ungerstedt, U., see Sharp, T., **401**, 322
- Upsydyke, B.V. and Liles, S.L.
The corticostriatal projection in cat: relation between axon terminals and evoked potentials, **402**, 365
- Upp Jr., J.R., see Hsu, L.L., **417**, 232
- Urban, I.J.A., see Joëls, M., **403**, 192
- Urbanski, R., see Punnen, S., **422**, 336
- Urca, G., see Raigorodsky, G., **422**, 158
- Urich, H., see Shiurba, R.A., **407**, 205
- Usami, K., Shingai, R. and Ban, T.
Muscarinic cholinergic receptor binding and electrophysiological response to acetylcholine in cultured rat caudate putamen nucleus neurons, **420**, 167
- Usami, S.-I., Igarashi, M. and Thompson, G.C.
GABA-like immunoreactivity in the chick vestibular end organs, **418**, 383
- Usami, S.-I., Igarashi, M. and Thompson, G.C.
GABA-like immunoreactivity in the squirrel monkey vestibular endorgans, **417**, 367
- Ushijima, H., see Yamada, S., **410**, 212
- Ushiyama, T., see Suda, T., **405**, 247
- Usovicz, M.M., see Cull-Candy, S.G., **402**, 182
- Uytings, H.B.M., see De Ruiter, J.P., **402**, 217

V

- Vacas, M.I., see Franchi, A.M., **405**, 384
- Vacher, S.R., see Kobler, J.B., **425**, 372
- Vadász, C., see Juhász, M., **423**, 305
- Vale, W., see Rivier, C., **422**, 403
- Vale, W., see Zukin, S.R., **416**, 84
- Vale, W.W., see DeSouza, E.B., **437**, 355
- Vale, W.W., see Powers, R.E., **415**, 347
- Valentini, R.F., see Aebischer, P., **436**, 165
- Vallejo, M. and Lightman, S.L.
Evidence for a functional relationship between noradrenaline and neurohypophyseal peptides in the brainstem of rats, **422**, 295

U

- Uchida, S., see Fukuchi, I., **400**, 53
- Uchide, K., see Negoro, H., **404**, 371
- Uchiyama, H., Matsutani, S. and Watanabe, M.
Activation of the isthmo-optic

- Van Delft, A.M.L., see Hagan, J.J., **410**, 69
- Van den Bercken, J., see Ruigt, G.S.F., **437**, 309
- Van den Bosch de Aguilar, P., see Knoops, B., **425**, 191
- Van der Kooy, D., see Miceli, M.O., **412**, 381
- Van der Kooy, D. and Fishell, G. Neuronal birthdate underlies the development of striatal compartments, **401**, 155
- Van der Kooy, D., see Miceli, M.O., **402**, 318
- Van der Loos, H., see Miklossy, J., **426**, 377
- Van der Poel, A.M., see Lammers, J.H.C.M., **418**, 1
- Van der Poel, A.M., see Mos, J., **404**, 263
- Van der Woude, T.P., see Kruisbrink, J., **419**, 76
- Van der Zalm, J.M., see Ruigt, G.S.F., **437**, 309
- Van Dijk, B.W., see Freeman, W.J., **422**, 267
- Van Dongen, P.A.M., see Buchanan, J.T., **408**, 299
- Van Eekelen, J.A.M., Kiss, J.Z., Westphal, H.M. and De Kloet, E.R. Immunocytochemical study on the intracellular localization of the type 2 glucocorticoid receptor in the rat brain, **436**, 120
- Van Eldik, L.J. and Zimmer, D.B. Secretion of S-100 from rat C6 glioma cells, **436**, 367
- Van Gool, W.A., see Roozendaal, B., **409**, 259
- Van Gool, W.A., Witting, W. and Mirmiran, M. Age-related changes in circadian sleep-wakefulness rhythms in male rats isolated from time cues, **413**, 384
- Van Herp, F., see Schooneveld, H., **406**, 224
- Van Huizen, F. and Romijn, H.J. Tetrodotoxin enhances initial neurite outgrowth from fetal rat cerebral cortex cells in vitro, **408**, 271
- Van Minnen, J., see Schooneveld, H., **406**, 224
- Van Ree, J.M., see Radhakishun, F.S., **426**, 235
- Van Ree, J.M., see Wolterink, G., **421**, 41
- Van Veldhuis, M., see Joëls, M., **403**, 192
- Van Wageningen, G., see Douglas, R., **418**, 111
- Van Wimersma Greidanus, T.B., see Veldhuis, H.D., **425**, 167
- Vanderwolf, C.H. Suppression of serotonin-dependent cerebral activation: a possible mechanism of action of some psychotomimetic drugs, **414**, 109
- Vanderwolf, C.H., see Détári, L., **437**, 1
- Vanderwolf, C.H., see Stewart, D.J., **423**, 101
- Vanderwolf, C.H., see Stewart, D.J., **423**, 88
- Vaněček, J., see Illnerová, H., **417**, 167
- Vaněček, J., Pavlík, A. and Illnerová, H. Hypothalamic melatonin receptor sites revealed by autoradiography, **435**, 359
- Vanhems, E. and Delbos, M. Differentiation of glial cells and neurite outgrowth obtained from embryonic locust central nervous system explants, **411**, 129
- Varon, S., see Müller, H., **413**, 320
- Vaudry, H., see Delbende, C., **423**, 203
- Vaudry, H., see Jégou, S., **413**, 259
- Vaudry, H., see Pelletier, G., **423**, 247
- Vaughan, G.M., see Vaughan, M.K., **417**, 321
- Vaughan Jr., H.G., see Arezzo, J.C., **401**, 79
- Vaughan, M.K., Chambers, J.P., Tsien, A.T.C., Vaughan, G.M. and Reiter, R.J. Pineal and retinal lysosomal enzyme rhythms, **417**, 321
- Vaughn, J.E., see Matthews, D.A., **402**, 30
- Veale, W.L., see Burnard, D.M., **422**, 11
- Veale, W.L., see Naylor, A.M., **401**, 173
- Vecsernyés, M., Jójárt, I., Jójárt, J., Laczi, F. and László, F.A. Presence of chromatographically identified oxytocin in human sensory ganglia, **414**, 153
- Vecsernyés, M., see Laczi, F., **403**, 155
- Vehovszky, A., see Balaban, P.M., **404**, 201
- Veldhuis, H.D., Van Wimersma Greidanus, T.B. and Versteeg, D.H.G. Microinjection of anti-vasopressin serum into limbic structures of the rat brain: effects on passive avoidance responding and on local catecholamine utilization, **425**, 167
- Veldsema-Currie, R.D. Acetylcholine stores in rat diaphragm are increased by higher concentrations of dexamethasone, **400**, 196
- Velley, L., see Ferssiwi, A., **437**, 142
- Ventimiglia, R. and Geller, H.M. Cell types and cell-substrate interactions in serum-free dissociated cultures of rat hypothalamus, **436**, 339
- Verberne, A.J.M., Lewis, S.J., Worland, P.J., Beart, P.M., Jarrott, B., Christie, M.J. and Louis, W.J. Medial prefrontal cortical lesions modulate baroreflex sensitivity in the rat, **426**, 243
- Verge, V.M.K., see Richardson, P.M., **411**, 406
- Verhaagen, J., Edwards, P.M., Jennekens, F.G.I., Schotman, P. and Gispén, W.H. Early effect of an ACTH₄₋₉ analog (Org.2766) on regenerative sprouting demonstrated by the use of neurofilament-binding antibodies isolated from a serum raised by α -MSH immunization, **404**, 142
- Verheijden, P.F.H.M., see Plantjé, J.F., **413**, 205
- Verheijden, P.F.H.M., see Stoof, J.C., **404**, 273
- Verheijden, P.F.H.M., see Stoof, J.C., **423**, 364
- Verhofstad, A.A.J., see Holets, V.R., **408**, 141
- Verhofstad, A.A.J., see Millhorn, D.E., **410**, 179
- Vern, B.A., Schuette, W.H., Juel, V.C. and Radulovacki, M. A simplified method for monitoring the cytochrome *aa*₃ redox state in bilateral cortical areas of unanesthetized cats, **415**, 188
- Vernier, P., see Paturle, L., **402**, 383
- Versteeg, D.H.G. and Ulenkate, H.J.L.M. Basal and electrically stimulated release of [³H]noradrenaline and [³H]dopamine from rat amygdala slices in vitro: effects of 4β -phorbol 12,13-dibutyrate, 4α -phorbol 12,13-didecanoate and polymyxin B, **416**, 343
- Versteeg, D.H.G., see Radhakishun, F.S., **426**, 235
- Versteeg, D.H.G., see Veldhuis, H.D., **425**, 167
- Vesselkin, N.P., see Weidner, C., **436**, 153
- Vezina, P., Kalivas, P.W. and Stewart, J. Sensitization occurs to the locomotor effects of morphine and the specific μ opioid receptor agonist, DAGO, administered repeatedly to the ventral tegmental area but not to the nucleus accumbens, **417**, 51
- Viale, G.L., see Cossu, M., **415**, 399
- Vibulsreth, S., Hefti, F., Ginsberg, M.D., Dietrich, W.D. and Busto, R. Astrocytes protect cultured neurons from degeneration induced by anoxia, **422**, 303
- Vidal-Sanz, M., see Thanos, S., **406**, 317
- Viglietti-Panzica, C., see Panzica, G.C., **416**, 59
- Villablanca, J.R. and Gómez-Pinilla, F. Novel crossed corticohalamic projections after neonatal cerebral hemispherectomy. A quantitative autoradiography study in cats, **410**, 219
- Villanueva, L., see Le Bars, D., **412**, 190
- Villiger, J.W., see Faull, R.L.M., **411**, 379
- Vincent, S.R., see Mizukawa, K., **426**, 28

- Vion-Dury, J., Cupo, A. and Jarry, T.
Analgesic properties of valproic acid
might be related to activation of
pro-enkephalin system in rat brain,
408, 243
- Viratelle, O.M., see Voisin, P.J.,
404, 65
- Visser, T.J., see Holets, V.R., **408**, 141
- Visser, T.J., see Ulfhake, B., **419**, 387
- Vitković, L., see Steisslinger, H.W.,
415, 375
- Vitórica, J., see Martínez, A., **435**, 249
- Vogel, Z., see Zak, N.B., **408**, 263
- Vogelsang, G.D., see Piercey, M.F.,
424, 1
- Voisin, P.J., Girault, J.M.,
Labouesse, J. and Viratelle, O.M.
 β -Adrenergic receptors of cerebellar
astrocytes in culture: intact cells
versus membrane preparation,
404, 65
- Von Bartheld, C.S. and Meyer, D.L.
Comparative neurology of the optic
tectum in ray-finned fishes: patterns
of lamination formed by retinotectal
projections, **420**, 277
- VonVoigtlander, P.F., see Hall, E.D.,
435, 174
- Voorn, P., Roest, G. and
Groenewegen, H.J.
Increase of enkephalin and decrease
of substance P immunoreactivity in
the dorsal and ventral striatum of
the rat after midbrain
6-hydroxydopamine lesions, **412**, 391
- Vosmer, G., see Commins, D.L.,
403, 7
- Vosmer, G., see Commins, D.L.,
419, 253
- Vyskočil, F., Zemková, H.,
Teisinger, J. and Svoboda, P.
Arachidonate activates muscle
electrogenic sodium pump and brain
microsome Na^+/K^+ -ATPase under
suboptimal conditions, **436**, 85
- W
- Wada, H., see Ando-Yamamoto, M.,
410, 269
- Wada, H., see Inagaki, N., **402**, 197
- Wada, H., see Inagaki, N., **418**, 388
- Wada, J.A., see Mori, N., **425**, 45
- Wada, J.A., see Ono, K., **405**, 183
- Wada, J.A., see Ono, K., **435**, 84
- Wade, P., see Wu, W.-H., **401**, 407
- Wadell, I., see Johansson, H., **435**, 337
- Wadhwani, K., see Rechthand, E.,
406, 185
- Wagner, R.J., see Craig, R.P.,
410, 390
- Wahl, M., Lauritzen, M. and
Schilling, L.
Change of cerebrovascular reactivity
after cortical spreading depression in
cats and rats, **411**, 72
- Wahlestedt, C., Skagerberg, G.,
Ekman, R., Heilig, M., Sundler, F.
and Håkanson, R.
Neuropeptide Y (NPY) in the area
of the hypothalamic paraventricular
nucleus activates the
pituitary-adrenocortical axis in the
rat, **417**, 33
- Wahlström, G., see Nilsson, G.E.,
409, 265
- Wainer, B., see Shalaby, I.A., **402**, 68
- Wainer, B.H., see Kitt, C.A., **406**, 192
- Wainer, B.H., see Mufson, E.J.,
417, 385
- Wajda, I., see Adam-Vizi, V., **410**, 257
- Wakabayashi, K., see Oyanagi, K.,
411, 205
- Wakakuwa, K., Sumitomo, I.,
Sugitani, M. and Fukuda, Y.
Retinal inputs to the geniculate
relay cells in the eastern chipmunk
(*Tamias sibiricus asiaticus*): a
comparison between color and
non-color sensitive cells, **404**, 211
- Waksman, G., Hamel, E.,
Delay-Goyet, P. and Roques, B.P.
Neutral endopeptidase-24.11, μ and
 δ opioid receptors after selective
brain lesions: an autoradiographic
study, **436**, 205
- Waldbillig, R.J. and LeRoith, D.
Insulin receptors in the peripheral
nervous system: a structural and
functional analysis, **409**, 215
- Walker, L.C., see Powers, R.E.,
415, 347
- Walker, P.D. and McAllister II, J.P.
Minimal connectivity between
neostriatal transplants and the host
brain, **425**, 34
- Walker, P.D., see Zemanick, M.C.,
414, 149
- Walker, R.F., see Navarro, H.A.,
421, 291
- Walkley, S.U., Wurzelmann, S. and
Siegel, D.A.
Ectopic axon hillock-associated
neurite growth is maintained in
metabolically reversed
swainsonine-induced neuronal
storage disease, **410**, 89
- Wallace, M.N.
Histochemical demonstration of
sensory maps in the rat and mouse
cerebral cortex, **418**, 178
- Wallace, M.N., see Fredens, K.,
401, 68
- Wallace, T.L. and Johnson Jr., E.M.
Partial purification of a
parasympathetic neurotrophic factor
in pig lung, **411**, 351
- Wallock, L., see Emanuele, N.V.,
421, 255
- Walro, J.M. and Kucera, J.
Sharing of sensory terminals
between the dynamic bag₁ and static
bag₂ fibers in the rat muscle spindle,
425, 311
- Walsh, T.J., see Chrobak, J.J., **414**, 15
- Walshe, J., see Anwyl, R., **435**, 377
- Walter, J., see Krueger, J.M., **403**, 249
- Walter, J., see Krueger, J.M., **403**, 258
- Walters, J.R., see Carlson, J.H.,
400, 205
- Walters, J.R., see Weick, B.G.,
405, 234
- Walz, W. and Mozaffari, B.
Culture environment and
channel-mediated potassium fluxes
in astrocytes, **412**, 405
- Walz, W., see Juorio, A.V., **426**, 183
- Wamsley, J.K., see Byerley, W.F.,
421, 377
- Wamsley, J.K., see Filloux, F.M.,
408, 205
- Wamsley, J.K., see Gehlert, D.R.,
409, 308
- Wanaka, A., Matsuyama, T.,
Yoneda, S., Kamada, T.,
Shibasaki, T., Hayakawa, T. and
Tohyama, M.
Corticotropin-releasing factor-like
immunoreactive nerve fibers in the
rat superior cervical ganglion and
their fine structures, **435**, 91
- Wanaka, A., see Matsuyama, T.,
418, 325
- Wang, C.M., see Ault, B., **426**, 93
- Wang, J.-J., Kim, J.H. and Ebner, T.J.
Climbing fiber afferent modulation
during a visually guided, multi-joint
arm movement in the monkey,
410, 323
- Wang, J.H., see Matsui, H., **402**, 193
- Wang, M.R., see Kuo, J.S., **417**, 181
- Wang, R.Y., see Hand, T.H., **415**, 257
- Wang, R.Y., see Mereu, G., **408**, 210
- Wang, X., Tresham, J.J., Congiu, M.,
Coghlan, J.P. and Scoggins, B.A.
Somatostatin centrally inhibits
vasopressin secretion during
haemorrhage, **436**, 199
- Wang, Y.-Y. and Aghajanian, G.K.
Intracellular GTPyS restores the
ability of morphine to hyperpolarize
rat locus coeruleus neurons after
blockade by pertussis toxin, **436**, 396
- Ward, L., see McKinnon, G., **416**, 90
- Ward, D.G. and Darlington, D.N.
A blood pressure lowering effect of
lesions of the caudal periaqueductal
gray: relationship to basal pressure,
423, 373
- Ward, D.G. and Darlington, D.N.
Lesions of the caudal periaqueductal
gray prevent compensation of
arterial pressure during hemorrhage
407, 369
- Ward, R., Tremblay, L. and
Lassonde, M.
The relationship between callosal
variation and lateralization in mice
is genotype-dependent, **424**, 84
- Wardas, J., Ossowska, K. and
Wolfarth, S.
The role of γ -aminobutyric acid
mechanisms of the zona
incerta-lateral hypothalamus in the
catalepsy and muscle rigidity evoked
by morphine, **408**, 363
- Waser, P.G., see Keller, F., **405**, 305
- Washio, H., Imazato-Tanaka, C.,
Kanda, K. and Nomoto, S.

- Choline acetyltransferase and acetylcholinesterase activities in muscles of aged mice, **416**, 69
- Watanabe, M., see Uchiyama, H., **406**, 322
- Watanabe, M.
Synaptic organization of the nucleus dorsolateralis anterior thalami in the Japanese quail (*Coturnix coturnix japonica*), **401**, 279
- Watanabe, S., see Kitamura, T., **423**, 189
- Watanabe, T., see
Ando-Yamamoto, M., **410**, 269
- Watanabe, T., see Inagaki, N., **418**, 388
- Waterhouse, B.D., see Smith, S.S., **400**, 353
- Waterhouse, B.D., see Smith, S.S., **422**, 40
- Waterhouse, B.D., see Smith, S.S., **422**, 52
- Waters, C.M., Hunt, S.P., Jenner, P. and Marsden, C.D.
Localization of neurotensin receptors in the forebrain of the common marmoset and the effects of treatment with the neurotoxin 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine, **412**, 244
- Watt, C.B., Li, T., Lam, D.M.K. and Wu, S.M.
Interactions between enkephalin and γ -aminobutyric acid in the larval tiger salamander retina, **408**, 258
- Watt, C.B., see Su, Y.Y.T., **423**, 63
- Wattchow, D., see Gibbins, I.L., **414**, 143
- Wauquier, A., see Reid, K.H., **404**, 361
- Waxman, S.G., see Fields, R.D., **404**, 21
- Weaver, D.R., see Reppert, S.M., **403**, 398
- Webster, D.M.S., see Steeves, J.D., **401**, 205
- Wee, B.E.F. and Clemens, L.G.
Characteristics of the spinal nucleus of the bulbocavernosus are influenced by genotype in the house mouse, **424**, 305
- Weerasuriya, A.
Permeability of endoneurial capillaries to K, Na and Cl and its relation to peripheral nerve excitability, **419**, 188
- Wei, J.Y., see Tuckett, R.P., **413**, 87
- Wei, J.Y., see Tuckett, R.P., **413**, 95
- Weick, B.G. and Walters, J.R.
Effects of D₁ and D₂ dopamine receptor stimulation on the activity of substantia nigra pars reticulata neurons in 6-hydroxydopamine lesioned rats: D₁/D₂ coactivation induces potentiated responses, **405**, 234
- Weidmer-Mikhail, E., see Sanghera, M.K., **412**, 200
- Weidner, C., see Repérant, J., **408**, 233
- Weidner, C., Repérant, J., Desroches, A.-M., Miceli, D. and Vesselkin, N.P.
Nuclear origin of the centrifugal visual pathway in birds of prey, **436**, 153
- Weidner, C., Repérant, J., Kirpitchenkova, E., Miceli, D., Desroches, A. and Rio, J.P.
Time course of degeneration of the visual system induced by spontaneous glaucoma in the albino quail (*Coturnix coturnix japonica*), **419**, 357
- Weight, F.F., see Wilson, J.A., **425**, 376
- Weight, F.F., see Yavari, P., **400**, 133
- Weil-Fugazza, J., see Basbaum, A.I., **419**, 229
- Weisinger, R.S., Denton, D.A., McKinley, M.J., Osborne, P.G. and Tarjan, E.
Decrease of brain extracellular fluid [Na] and its interaction with other factors influencing sodium appetite in sheep, **420**, 135
- Weisinger, R.S., see Osborne, P.G., **412**, 36
- Weiss, H.S., see Pappolla, M., **424**, 272
- Weiss, M.H., see Hyman, S., **419**, 104
- Weiss, S., Kemp, D.E., Lenox, R.H. and Ellis, J.
 α_2 -Adrenergic receptors mediate inhibition of cyclic AMP production in neurons in primary culture, **414**, 390
- Weissman, A.D., Dam, M. and London, E.D.
Alterations in local cerebral glucose utilization induced by phencyclidine, **435**, 29
- Weizman, A., see Rehavi, M., **410**, 135
- Weizman, A., see Fares, F., **408**, 381
- Weizman, A., see Gavish, M., **409**, 386
- Wekerle, H., see Oropeza, R.L., **410**, 45
- Wenthold, R.J.
Evidence for a glycinergic pathway connecting the two cochlear nuclei: an immunocytochemical and retrograde transport study, **415**, 183
- Werb, Z., see Oropeza, R.L., **410**, 45
- Werblin, F., see Barnes, S., **406**, 233
- Werdelin, L., see Bryld, E., **409**, 364
- Wess, M.J., see Schwartz, R.D., **411**, 151
- Wessels, M.M., see Birchem, R., **421**, 173
- Wessendorf, M.W., see Appel, N.M., **415**, 137
- West, C.A., see Schurr, A., **421**, 135
- West, M.J., see Pilowsky, P.M., **420**, 380
- West, M.J., see Slomianka, L., **436**, 69
- Westerberg, V., see Lewis, J., **403**, 205
- Westfall, T.C., see Mereu, G., **408**, 210
- Westgaard, R.H., see Kirkwood, P.A., **405**, 187
- Westman, J., see Svensson, B.A., **423**, 229
- Westphal, H.M., see Van Eekelen, J.A.M., **436**, 120
- Wheal, H.V., see Holt, S.J., **405**, 227
- Whishaw, I.Q., see Dunnett, S.B., **415**, 63
- White, B., see Kumar, K., **421**, 309
- White, D.G., see Hayashi, R., **403**, 341
- White, J. and Meredith, M.
The nervus terminalis of the shark: the effect of efferent impulses on ganglion cell activity, **400**, 159
- Whitehead, M.C., Frank, M.E., Hettinger, T.P., Hou, L.-T. and Nah, H.-D.
Persistence of taste buds in denervated fungiform papillae, **405**, 192
- Whitehouse, P.J., see DeSouza, E.B., **437**, 355
- Whitehouse, P.J., see Kellar, K.J., **436**, 62
- Whitney, J.F., see Glenn, L.L., **435**, 398
- Whittington, D.L., see Woodruff, M.L., **408**, 97
- Wickland, C., see Baker, J., **408**, 339
- Widdowson, P.S.
The effect of neurotensin, TRH and the δ -opioid receptor antagonist ICI 174864 on alcohol-induced narcosis in rats, **424**, 281
- Wiede, J.P., see Kavaliers, M., **415**, 393
- Wightman, R.M., see Kelly, R.S., **423**, 79
- Wightman, R.M., see Kuhr, W.G., **418**, 122
- Wilcock, G.K., see Palmer, A.M., **401**, 231
- Wilcox, G.L., Carlsson, K.-H., Jochim, A. and Jurna, I.
Mutual potentiation of antinociceptive effects of morphine and clonidine on motor and sensory responses in rat spinal cord, **405**, 84
- Wilcox, R., see Pedder, S.C.J., **424**, 139
- Wild, J.M. and Arends, J.J.A.
A respiratory-vocal pathway in the brainstem of the pigeon, **407**, 191
- Wild, J.M.
Nuclei of the lateral lemniscus project directly to the thalamic auditory nuclei in the pigeon, **408**, 303
- Wild, J.M.
The avian somatosensory system: connections of regions of body representation in the forebrain of the pigeon, **412**, 205
- Wilkin, L.D., Patel, K.P., Schmid, P.G. and Johnson, A.K.
Increased norepinephrine turnover in the median preoptic nucleus following reduced extracellular fluid volume, **423**, 369
- Wilkinson, M.F. and Kasting, N.W.
The antipyretic effects of centrally administered vasopressin at different ambient temperatures, **415**, 275
- Willard, A.L. and Nishi, R.
Neuropeptides mark functionally distinguishable cholinergic enteric neurons, **422**, 163
- Willars, G.B., see Robinson, J.P.,

- 426, 339
 Williams, L.R., see Müller, H., 413, 320
 Williams, T.L., see Alford, S., 409, 139
 Willis, G.L. and Donnan, G.A.
 Histochemical, biochemical and behavioural consequences of MPTP treatment in C-57 black mice, 402, 269
 Willis, G.L., Sleeman, M., Pavey, G.M. and Smith, G.C.
 Further studies on the neurochemical specificity of 6-hydroxydopamine as compared to radiofrequency lesions, 403, 15
 Willis, W.D., see Carlton, S.M., 426, 310
 Willis, W.D., see Steinman, J.L., 426, 297
 Willis, W.D., see Yezierski, R.P., 437, 165
 Willoughby, J.O. and Blessing, W.W.
 Origin of serotonin innervation of the arcuate and ventromedial hypothalamic region, 418, 170
 Willoughby, J.O., Menadue, M.F. and Liebelt, H.
 Activation of serotonin receptors in the medial basal hypothalamus stimulates growth hormone secretion in the unanesthetized rat, 404, 319
 Willoughby, J.O., see Blessing, W.W., 419, 336
 Willoughby, J.O., see Pilowsky, P.M., 420, 380
 Wilson, D.A. and Leon, M.
 Evidence of lateral synaptic interactions in olfactory bulb output cell responses to odors, 417, 175
 Wilson, D.L., see Perry, G.W., 423, 1
 Wilson, F.A.W., see Brown, M.W., 409, 158
 Wilson, J.A., Wilson, J.S. and Weight, F.F.
 MPDP⁺ causes a non-reversible decrease in neostriatal synaptic transmission in mouse brain slice, 425, 376
 Wilson, J.S., see Wilson, J.A., 425, 376
 Wilson, J.S., Turner, B.H., Morrow, G.D. and Hartman, P.J.
 MPTP produces a mosaic-like pattern of terminal degeneration in the caudate nucleus of dog, 423, 329
 Wilson, W.A., see Swartzwelder, H.S., 410, 362
 Winblad, B., see Marcusson, J.O., 425, 137
 Windhorst, U., Rissing, R. and Meyer-Lohmann, J.
 After-effects of stochastic synaptic Renshaw cell excitation on their discharge probability, 408, 289
 Winson, J., see Pavlides, C., 423, 399
 Wirsig, C.R. and Leonard, C.M.
 Terminal nerve damage impairs the mating behavior of the male hamster, 417, 293
 Wirtshafter, D. and McWilliams, C.
 Suppression of locomotor activity produced by acute injections of kainic acid into the median raphe nucleus, 408, 349
 Wise, P.M., see Osterburg, H.H., 409, 31
 Wise, R.A., see Colle, L.M., 407, 285
 Wise, R.A., see Jenck, F., 423, 34
 Wise, R.A., see Jenck, F., 423, 39
 Witkin, J.W., see Silverman, A.-J., 402, 346
 Witting, W., see Van Gool, W.A., 413, 384
 Wohlberg, C.J., see Hackman, J.C., 407, 94
 Wolf, D.L., see Hall, E.D., 435, 174
 Wolf, K.M., see Chiappinelli, V.A., 402, 21
 Wolfarth, S., see Wardas, J., 408, 363
 Wolfson, L.I., see Brown, L.L., 411, 65
 Wolterink, G. and Van Ree, J.M.
 The ACTH₄₋₉ analog ORG 2766 'normalizes' the changes in motor activities of rats elicited by housing and test conditions, 421, 41
 Won, L., see Shalaby, I.A., 402, 68
 Wong, D.L., Yamasaki, L. and Ciaranello, R.D.
 Characterization of the isozymes of bovine adrenal medullary phenylethanolamine N-methyltransferase, 410, 32
 Wong, K.L., see Lovinger, D.M., 436, 177
 Wong, Y.C., see Kwan, H.C., 400, 259
 Wood, L., see Baxendale, R.H., 415, 353
 Wood, J.D., see Sidhu, H.S., 435, 334
 Wood, P.L., see Iyengar, S., 435, 220
 Wood, P.L., see Martin, L.L., 419, 239
 Woodward, C., see Lad, R.P., 423, 237
 Woodruff, M.L., Baisden, R.H., Whittington, D.L. and Benson, A.E.
 Embryonic hippocampal grafts ameliorate the deficit in DRL acquisition produced by hippocampectomy, 408, 97
 Woodward, D.J., see Smith, S.S., 400, 353
 Woodward, D.J., see Smith, S.S., 422, 40
 Woodward, D.J., see Smith, S.S., 422, 52
 Woody, C., see Hirano, T., 400, 171
 Woody, C.D. and Gruen, E.
 Acetylcholine reduces net outward currents measured in vivo with single electrode voltage clamp techniques in neurons of the motor cortex of cats, 424, 193
 Woody, C.D., see Baranyi, A., 424, 396
 Woolsey, T.A., see Yip, V.S., 406, 157
 Worland, P.J., see Verberne, A.J.M., 426, 243
 Wouterlood, F.G., Steinbusch, H.W.M., Luiten, P.G.M. and Bol, J.G.J.M.
 Projection from the prefrontal cortex to histaminergic cell groups in the posterior hypothalamic region of the rat. Anterograde tracing with *Phaseolus vulgaris* leucoagglutinin combined with immunocytochemistry of histidine decarboxylase, 406, 330
 Wrathall, J.R., see Noble, L.J., 424, 177
 Wree, A., Zilles, K., Schleicher, A., Horváth, E. and Traber, J.
 Effect of the 5-HT_{1A} receptor agonist ipsapirone on the local cerebral glucose utilization of the rat hippocampus, 436, 283
 Wright, E.M., see Saito, Y., 417, 267
 Wright, J.W., Sullivan, M.J., Quirk, W.S., Batt, C.M. and Harding, J.W.
 Heightened blood pressure and drinking responsiveness to intracerebroventricularly applied angiotensins in the spontaneously hypertensive rat, 420, 289
 Wroblewski, J.T., see Nicoletti, F., 436, 103
 Wu, M., see Mogenson, G.J., 404, 221
 Wu, M., see Swanson, L.W., 405, 108
 Wu, C.H., see Yoshii, M., 424, 119
 Wu, D.K. and De Vellis, J.
 The expression of the intermediate filament-associated protein (NAPA-73) is associated with the stage of terminal differentiation of chick brain neurons, 421, 186
 Wu, J.-Y., see Carpenter, M.B., 408, 275
 Wu, J.-Y., see D'Amelio, F.E., 410, 232
 Wu, J.-Y., see Kosaka, K., 403, 355
 Wu, J.-Y., see Kosaka, T., 411, 373
 Wu, J.-Y., see Kosaka, T., 413, 197
 Wu, J.-Y., see Kosaka, T., 419, 119
 Wu, J.-Y., see Kubota, Y., 406, 147
 Wu, J.-Y., see Millhorn, D.E., 410, 179
 Wu, J.-Y., see Yazulla, S., 411, 400
 Wu, P., see Anthony, E.L.P., 424, 258
 Wu, P., see Bruhn, T.O., 424, 290
 Wu, S.J., see Spink, D.C., 421, 235
 Wu, S.M., see Watt, C.B., 408, 258
 Wu, W.-H., Ponnudurai, R., Katz, J., Pott, C.B., Chilcoat, R., Uncini, A., Rapoport, S., Wade, P. and Mauro, A.
 Failure to confirm report of light-evoked response of peripheral nerve to low power helium-neon laser light stimulus, 401, 407
 Wu, Z.-H., see Jiang, C., 413, 189
 Wüllner, U., Klockgether, T., Schwarz, M. and Sontag, K.-H.
 Behavioral actions of baclofen in the rat ventromedial thalamic nucleus: antagonism by δ -aminovaleate, 422, 129
 Wurlpel, J.N.D., see Dundore, R.L., 401, 122
 Wurtman, R.J., see Irie, K., 423, 391
 Wurtman, R.J., see Lakher, M., 419, 131
 Wurzelmann, S., see Walkley, S.U., 410, 89
 Wyss, J.M., see Sripanidkulchai, B., 400, 91

Wyss, J.M., see Sripanidkulchai, K.,
406, 255

X

Xiang, X.-K., see Chiang, C.-Y.,
411, 259

Y

Yagi, K., see Shibuki, K., 410, 140

Yajima, F., see Suda, T., 405, 247

Yajima, H., see Oku, R., 403, 350

Yaksh, T.L., Furui, T., Kanawati, I.S.
and Go, V.L.W.

Release of cholecystokinin from rat
cerebral cortex in vivo: role of
GABA and glutamate receptor
systems, 406, 207

Yaksh, T.L., see Kim, P., 402, 87

Yaksh, T.L., see Schick, R.R., 418, 20

Yaksh, T.L., see Stevens, C.W.,
402, 201

Yaksh, T.L., see Stevens, C.W.,
425, 388

Yamada, S., Kagawa, Y.,
Ushijima, H., Takayanagi, N.,
Tomita, T. and Hayashi, E.
Brain nicotinic cholinceptor
binding in spontaneous
hypertension, 410, 212

Yamamoto, H., see Iwasaki, Y.,
406, 99

Yamamoto, K., see Matsumoto, M.,
424, 231

Yamamoto, K., see Sakaguchi, H.,
410, 380

Yamamoto, N., see Hamasaki, T.,
422, 172

Yamamoto, T. and Keabian, J.W.
Occurrence of the D-1 dopamine
receptor in the substantia nigra of
several mammalian species:
identification in binding studies
using [¹²⁵I]SCH 23982, 407, 398

Yamamoto, T. and Yuyama, N.
On a neural mechanism for cortical
processing of taste quality in the rat,
400, 312

Yamamoto, T., Samejima, A. and
Oka, H.
Morphology of layer V pyramidal
neurons in the cat somatosensory
cortex: an intracellular HRP study,
437, 369

Yamamoto, T., see Iwasaki, Y., 406, 99

Yamamura, H.I., see Smith, T.L.,
420, 362

Yamanaka, K., Muramatsu, I. and
Kigoshi, S.
Muscarinic agonist binding in rat
brain following chronic nicotine
treatment, 409, 395

Yamano, M. and Tohyama, M.
Afferent and efferent
enkephalinergic systems of the
tegmental nuclei of Gudden in the
rat: an immunocytochemical study,
408, 22

Yamasaki, D., see Sahibzada, N.,
415, 242

Yamasaki, L., see Wong, D.L., 410, 32

Yamashita, H., see Inenaga, K.,
424, 126

Yamashita, H., see Kannan, H.,
409, 358

Yamashita, H., see Okuya, S., 402, 58

Yamashita, H., Inenaga, K. and
Kannan, H.
Depolarizing effect of noradrenaline
on neurons of the rat supraoptic
nucleus in vitro, 405, 348

Yamashita, H., Okuya, S.,
Inenaga, K., Kasai, M., Uesugi, S.,
Kannan, H. and Kaneko, T.
Oxytocin predominantly excites
putative oxytocin neurons in the rat
supraoptic nucleus in vitro, 416, 364

Yamashita, K., see Kataoka, Y.,
416, 243

Yamashita, S., see Nagaoka, R.,
410, 283

Yamashita, T., see Uemura, T., 406, 73

Yamatodani, A., see Inagaki, N.,
418, 388

Yamazaki, Y., see Seto-Ohshima, A.,
410, 292

Yanagihara, T., see Matsumoto, M.,
424, 231

Yanaihara, N., see Shimosegawa, T.,
406, 341

Yanaihara, C., see Shimosegawa, T.,
406, 341

Yanaihara, N., see Kosaka, T.,
411, 373

Yang, J., Johansen, J., Koehm, S. and
Kleinhaus, A.L.
In situ patch-clamp recording of
calcium-activated potassium
channels from an identified leech
neuron, 419, 324

Yanik, G. and Radulovacki, M.
REM sleep deprivation up-regulates
adenosine A₁ receptors, 402, 362

Yanik, G., Glaum, S. and
Radulovacki, M.

The dose-response effects of
caffeine on sleep in rats, 403, 177

Yao, H., see Sadoshima, S., 413, 297

Yashima, Y., see Nakajima, T.,
417, 360

Yasuda, T., Sobue, G., Mokuno, K.,
Kreider, B. and Pleasure, D.
Cultured rat Schwann cells express
low affinity receptors for nerve
growth factor, 436, 113

Yasui, Y., Itoh, K. and Mizuno, N.
Direct projections from the caudal
spinal trigeminal nucleus to the
striatum in the cat, 408, 334

Yasui, Y., see Itoh, K., 400, 145

Yavari, P. and Weight, F.F.
Antagonists discriminate muscarinic
excitation and inhibition in
sympathetic ganglion, 400, 133

Yazulla, S., Studholme, K.M. and
Wu, J.-Y.
GABAergic input to the synaptic
terminals of mb₁ bipolar cells in the
goldfish retina, 411, 400

Yeh, H.H., see Fukuda, M., 414, 177

Yeoh, H.C., see Held, I.R., 407, 341

Yeomans, J.S., see Tehovnik, E.J.,
407, 240

Yezierski, R.P., Sorkin, L.S. and
Willis, W.D.
Response properties of spinal
neurons projecting to midbrain or
midbrain-thalamus in the monkey,
437, 165

Yin, H.-S., Mackler, S.A. and
Selzer, M.E.
The axon reaction of lamprey spinal
interneurons, 421, 48

Yip, V.S., Zhang, W.-P.,
Woolsey, T.A. and Lowry, O.H.
Quantitative histochemical and
microchemical changes in the adult
mouse central nervous system after
section of the infraorbital and optic
nerves, 406, 157

Yirmiya, R. and Hocherman, S.
Auditory- and movement-related
neural activity interact in the
pulvinar of the behaving rhesus
monkey, 402, 93

Yokota, T., see Taguchi, H., 436, 240

Yoneda, Y., see Ohgaki, T., 425, 364

Yoneda, S., see Matsuyama, T.,
418, 325

Yoneda, S., see Wanaka, A., 435, 91

Yoneda, Y. and Ogita, K.
Are Ca²⁺-dependent proteases
really responsible for Cl⁻-dependent
and Ca²⁺-stimulated binding of
[³H]glutamate in rat brain?, 400, 70

Yoneda, Y. and Ogita, K.
Enhancement of [³H]glutamate
binding by *N*-methyl-D-aspartic acid
in rat adrenal, 406, 24

Yongue, B.G. and Roy, E.J.
Endogenous aldosterone and
corticosterone in brain cell nuclei of
adrenal-intact rats: regional
distribution and effects of
physiological variations in serum
steroids, 436, 49

Yool, A.J. and Gruol, D.L.
Development of spontaneous and
glutamate-evoked activity is altered
by chronic ethanol in cultured
cerebellar Purkinje neurons,
420, 205

York, D.A., see Holt, S.J., 405, 227

Yoshida, H., see Fukuchi, I., 400, 53

Yoshida, K., see Kimura, F., 410, 315

Yoshida, S., see Shibuki, K., 410, 140

Yoshida, A., Tsuru, K., Mitsuhiro, Y.,
Otani, K. and Shigenaga, Y.
Morphology of masticatory
motoneurons stained intracellularly
with horseradish peroxidase,

- 416, 393
Yoshida, F., Fujishima, M., Sadoshima, S., Ishituka, T. and Ogata, J.
Carbon dioxide reactivity of cerebral cortical and pial arteries in spontaneously hypertensive and normotensive rats — a morphometric study, **412**, 1
Yoshida, M., Teramura, M., Sakai, M., Karasawa, N., Nagatsu, T. and Nagatsu, I.
Immunohistochemical visualization of glutamate- and aspartate-containing nerve terminal pools in the rat limbic structures, **410**, 169
Yoshida, S., Ikeda, M., Busto, R., Santiso, M., Martinez, E. and Ginsberg, M.D.
Cerebral phosphoinositide, triacylglycerol and energy metabolism during sustained seizures induced by bicuculline, **412**, 114
Yoshihara, Y., see Ueda, H., **419**, 197
Yoshii, M., Tsunoo, A., Kuroda, Y., Wu, C.H. and Narahashi, T.
Maitotoxin-induced membrane current in neuroblastoma cells, **424**, 119
Yoshimatsu, H., see Katafuchi, T., **400**, 62
Yoshimoto, T., see Tominaga, T., **402**, 370
Yoshimura, A., see Fujitsuka, N., **415**, 144
Yoshimura, M., Polosa, C. and Nishi, S.
Noradrenaline induces rhythmic bursting in sympathetic preganglionic neurons, **420**, 147
Yoshimura, M., Polosa, C. and Nishi, S.
Slow EPSP and the depolarizing action of noradrenaline on sympathetic preganglionic neurons, **414**, 138
Yoshimura, M., Polosa, C. and Nishi, S.
Slow IPSP and the noradrenaline-induced inhibition of the cat sympathetic preganglionic neuron in vitro, **419**, 383
Yoshimura, N., see Sasa, M., **420**, 157
Youdim, M.B.H., see Gavish, M., **409**, 386
Young, B.S., see Guyenet, P.G., **406**, 171
Young, S.J., see Klemfuss, H., **409**, 197
Youngentob, S.L., see Hornung, D.E., **413**, 147
Young III, W.S., see Powers, R.E., **415**, 347
Yu, C.Y., see Kuo, J.S., **417**, 181
Yu, J., see Bridges, R.J., **415**, 163
Yu, J.-R., see Hsu, L.L., **417**, 232
Yuwiler, A., see Schneider, J.S., **411**, 144
Yuyama, N., see Yamamoto, T., **400**, 312
- Z**
- Zacharko, R.M., Lalonde, G.T., Kasian, M. and Anisman, H.
Strain-specific effects of inescapable shock on intracranial self-stimulation from the nucleus accumbens, **426**, 164
Zadina, J.E., Kastin, A.J., Manasco, P.K., Pignatiello, M.F. and Nastiuk, K.L.
Long-term hyperalgesia induced by neonatal β -endorphin and morphiceptin is blocked by neonatal Tyr-MIF-1, **409**, 10
Zagon, I.S. and McLaughlin, P.J.
Endogenous opioid systems regulate cell proliferation in the developing rat brain, **412**, 68
Zagon, I.S., see Hauser, K.F., **416**, 157
Zagoren, J.C., see Nunn, P.B., **410**, 375
Zahm, D.S. and Heimer, L.
The ventral striatopallidothalamic projection. III. Striatal cells of the olfactory tubercle establish direct synaptic contact with ventral pallidal cells projecting to mediodorsal thalamus, **404**, 327
Zaidi, M., see Kubota, Y., **415**, 385
Zajac, J.-M., see Delay-Goyet, P., **414**, 8
Zajac, J.M., see Dickenson, A.H., **413**, 36
Zak, N.B., Harel, A., Bawnik, Y., Benbasat, S., Vogel, Z. and Schwartz, M.
Laminin-immunoreactive sites are induced by growth-associated triggering factors in injured rabbit optic nerve, **408**, 263
Zakharov, I.S., see Balaban, P.M., **404**, 201
Zarola, F., see Rossini, P.M., **415**, 211
Zebrowski, A.F., see Lumia, A.R., **404**, 121
Zeeberg, I., see Bryld, E., **409**, 364
Zeise, M.L., see Preisendörfer, U., **435**, 213
Zeller-DeAmicis, L., see Bowersox, S.S., **402**, 44
Zemanick, M.C., Walker, P.D. and McAllister II, J.P.
Quantitative analysis of dendrites from transplanted neostriatal neurons, **414**, 149
Zemková, H., see Vyskočil, F., **436**, 85
Zethof, T., see Mos, J., **404**, 263
Zetterström, T., see Sharp, T., **401**, 322
Zhang, W., see Sun, X., **414**, 314
Zhang, S., Sun, X. and Jen, P.H.-S.
Anatomical study of neural projections to the superior colliculus of the big brown bat, *Eptesicus fuscus*, **416**, 375
Zhang, W.-P., see Yip, V.S., **406**, 157
Zhao, Z.Q., see Duggan, A.W., **403**, 345
Zidar, J., Trontelj, J.V. and Mihelin, M.
Percutaneous stimulation of human corticospinal tract: a single-fibre EMG study of individual motor unit responses, **422**, 196
Zill, S.N.
Selective mechanical stimulation of an identified proprioceptor in freely moving locusts: role of resistance reflexes in active posture, **417**, 195
Zilles, K., see Wree, A., **436**, 283
Zimmer, J., see Sørensen, T., **413**, 392
Zimmer, D.B., see Van Eldik, L.J., **436**, 367
Zimmerman, E.A., see Perlow, M.J., **415**, 158
Zimmermann, M., see Morton, C.R., **410**, 347
Zipser, B., see Peinado, A., **410**, 335
Zipser, B., see Peinado, A., **410**, 330
Zisapel, N., see Laudon, M., **402**, 146
Zivin, J.A., DeGirolami, U., Kochhar, A., Lyden, P.D., Mazzarella, V., Hemenway, C.C. and Henry, M.E.
A model for quantitative evaluation of embolic stroke therapy, **435**, 305
Zivkovic, B., see Oblin, A., **421**, 387
Zlotogorski, D., see Fares, F., **408**, 381
Zohar, J., see Klein, E., **407**, 312
Zottoli, S.J., Hordes, A.R. and Faber, D.S.
Localization of optic tectal input to the ventral dendrite of the goldfish Mauthner cell, **401**, 113
Zucker, I., see Dark, J., **409**, 302
Zukin, R.S., see Zukin, S.R., **416**, 84
Zukin, S.R., see Sircar, R., **435**, 235
Zukin, S.R., Zukin, R.S., Vale, W., Rivier, J., Nichtenhauser, R., Snell, L.D. and Johnson, K.M.
An endogenous ligand of the brain α /PCP receptor antagonizes NMDA-induced neurotransmitter release, **416**, 84
Zuniga, J.R., Joseph, S.A. and Knigge, K.M.
The effects of nitrous oxide on the central endogenous pro-opiomelanocortin system in the rat, **420**, 57
Zuniga, J.R., Joseph, S.A. and Knigge, K.M.
The effects of nitrous oxide on the secretory activity of pro-opiomelanocortin peptides from basal hypothalamic cells attached to cytodex beads in a superfusion in vitro system, **420**, 66

BRAIN RESEARCH
SUBJECT INDEX
1987
VOLUMES 400-426, 435-437

A

A1 cell group

Adrenocorticotropin;
Catecholaminergic pathway;
Hemorrhage; Ventrolateral medulla;
Electrolytic lesion; Vasopressin
(Carlson, D.E.) **406**, 385

Caudal ventrolateral medulla;
Catecholamine metabolism; In vivo
voltammetry; Baroreceptor reflex;
Vasomotor center; Central
cardiovascular control; Rat
(Quintin, L.) **425**, 319

A1 catecholaminergic area

Paraventricular nucleus;
Tuberoinfundibular neuron;
Baroreceptor; Glutamate
microinjection (Kannan, H.) **409**, 358

A1 neuron

Anodal and cathodal lesion; Clonidine;
Methyl dopa; 6-Hydroxydopamine;
Rabbit (Head, G.A.) **412**, 18

A1 receptor

Brain adenosine; REM sleep
deprivation; Rat (Yanik, G.) **402**, 362

A10 dopamine neuron

Enkephalin; Footshock; Ventral
tegmental area; Dopamine turnover
Kalivas, P.W.) **414**, 339

A10 neuron

Lisuride; Dopamine autoreceptor;
Subchronic treatment (Mereu, G.)
408, 210

A10 region

Defence reaction; Dopaminergic
system; Ventromedial hypothalamus;
Inhibition; Sulpiride (Piazza, P.V.)
413, 356

Abducens

Fatigue; Motor unit; Lateral rectus;
Retractor bulbi; Split lateral
rectus-retractor bulbi (Gurahian, S.M.)
415, 281

Abducens nucleus

Choline acetyltransferase; Leucine
enkephalin; Olivocochlear bundle;
Periolivary nucleus; Superior olivary
complex; Vestibular efferent neuron
(Carpenter, M.B.) **408**, 275

Ablation

Cortex; Parietal cortex; Somatosensory
cortex; Temperature; Discrimination;
Lemniscal; Extralemniscal
(Porter, L.H.) **412**, 54

Abstinence motivation

Opiate physical dependence;
Conditioned place preference;
Withdrawal distress; Naltrexone;
Quaternary naltrexone; Morphine
pellet (Mucha, R.F.) **418**, 214

Abundant protein

Rat brain cortex; Plasma membrane;
Two-dimensional electrophoresis;
Phosphorylation (Steisslinger, H.W.)
415, 375

Acallosal brain

Corpus callosum; Probst's bundle;
Callosal development; Anterior
commissure; Hippocampal commissure;
DdN Strain mouse (Ozaki, H.S.)
400, 239

Accessory nerve

Motoneuron; Morphology;
Distribution; Cobaltic lysine; Japanese
toad (Oka, Y.) **400**, 383

Vagus; Glossopharyngeal;
Elasmobranch; Horseradish peroxidase;
Nucleus ambiguous (Barry, M.A.)
425, 159

Accessory olfactory bulb

Synaptic reorganization; Lesion;
Medial amygdaloid nucleus; Electron
microscopy; Rat (Ichikawa, M.)
420, 243

Synaptic reorganization; Lesion;
Medial amygdaloid nucleus; Bed
nucleus of stria terminalis; Electron
microscopy; Degenerating synapse; Rat
(Ichikawa, M.) **420**, 253

Accessory optic system

Direction selectivity; Optic tract
nucleus; Optokinetic nystagmus;
Preteectum (Natal, C.L.) **419**, 320

Accumbens nucleus

Dopamine; Electron microscopy;
 γ -Aminobutyric acid;
Immunocytochemistry; Lateral septum;
Rat (Onténiente, B.) **421**, 391

Acetaldehyde

Salsolinol; Catecholamine; Ethanol;
Rat brain; Gas chromatography-mass
spectrometry (GC/MS)
(Matsubara, K.) **413**, 336

Alcohol; Brain; Microtubule; Tubulin;
Polymerization; Adduct
(McKinnon, G.) **416**, 90

Acetazolamide

Carbonic anhydrase; Peripheral nerve
(Oswald, T.) **406**, 379

Acetylcholine

Glucocorticoid; Dexamethasone;
Physostigmine; Neuromuscular
junction; Myasthenia gravis
(Veldsema-Currie, R.D.) **400**, 196

Acetylcholinesterase;
Butyrylcholinesterase; Electron
microscope; Histochemistry; Human
retina (Hutchins, J.B.) **400**, 300

Hippocampus; Choline
acetyltransferase (ChAT); Monoclonal
antibody; Immunocytochemistry;
Morphometry; Septal lesion; Rat
(Matthews, D.A.) **402**, 30

Adenosine 3',5'-monophosphate
(Cyclic AMP); Adenosine

3',5'-monophosphate (Cyclic GMP);
Aluminum (Johnson, G.V.W.) **403**, 1

Circadian rhythm; Biological clock;
Entrainment; Suprachiasmatic nucleus
(Keefe, D.L.) **403**, 308

Choline; Septum; Cholinergic neuron;
Slice culture; Hemicholinium-3; High
affinity choline uptake (Keller, F.)
405, 305

α -Bungarotoxin; Suprachiasmatic
nucleus; Circadian rhythm; Receptor
autoradiography; Hypothalamus;
Light-dark cycle (Fuchs, J.L.) **407**, 9

Cholecystokinin; Caudatoputamen;
Dopamine; Cerebral cortex;
 γ -Aminobutyric acid; Leucine
enkephalin (Gysling, K.) **407**, 110

Choline acetyltransferase;
Immunohistochemistry; Sensory
neurons; Locust (Lutz, E.M.) **407**, 173

Cyclic AMP; Cyclic GMP; Muscarinic
response; Dopamine;
Phosphodiesterase inhibitor
(Tsunoo, A.) **407**, 55

Rat; Somatic sensory cortex; Neural
modulation (Donoghue, J.P.) **408**, 367

Amphetamine rotation; M₁ and M₂
muscarinic receptors; Dopamine
(Hagan, J.J.) **410**, 69

Suprachiasmatic nucleus;
Retinohypothalamic tract;
Hypothalamic slice; Excitatory amino
acid; Kynurenate (Cahill, G.M.)
410, 125

Cholinesterase; Histochemistry;
Huntington's disease; Striatum
(Ferrante, R.J.) **411**, 162

Nicotine; Cat visual cortex; Lateral
geniculate nucleus; Receptor; Binding
site (Prusky, G.T.) **412**, 131

Hemicholinium-3;
Acetylcholinesterase; Receptor
autoradiography; Striatum; Striosome;
Rabbit (Rhodes, K.J.) **412**, 400

AF64A; Cholinergic neurotoxin;
Learning and memory; Working
memory; Hippocampus (Chrobak, J.J.)
414, 15

Desynchronized sleep; Pontine
tegmentum; Carbachol; Cat;
Microinjection (Baghdoyan, H.A.)
414, 245

Alzheimer's disease; Neocortex;
Catecholamine; Dopamine;
Noradrenaline; Human brain
(Palmer, A.M.) **414**, 365

Norepinephrine; Neurotransmitter
interaction; Memory; Rat
(Decker, M.W.) **417**, 59

Choline acetyltransferase;
Interpeduncular nucleus; Medial
habenula; Fasciculus retroflexus;
Cytochrome oxidase; Plasticity

(Eckenrode, T.C.) **418**, 273

Cerebellar glomerulus; γ -Aminobutyric acid; Glycine; Serotonin; Choline (Morales, E.) **420**, 11

Cerebral circulation; Pial vessel; Endothelium; Choline acetyltransferase (ChAT); Cholinergic innervation (Hamel, E.) **420**, 391

Circling behavior; Honey bee; γ -Aminobutyric acid; Muscimol; Picrotoxin; Flaxedil; Nicotine; Lesion (Michelsen, D.B.) **421**, 14

Ethylcholine aziridinium ion (AF64A); Noradrenaline; Dopamine; Hippocampus; Alzheimer's disease (Hörtnagl, H.) **421**, 75

Myenteric neuron; Cell culture; Rat; Co-transmitter; Vasoactive intestinal peptide; Somatostatin (Willard, A.L.) **422**, 163

Choline acetyltransferase; Acetylcholinesterase; Stress; Hippocampus; Hypothalamus (Fatranská, M.) **424**, 109

Aspartate; Dopamine; γ -Aminobutyric acid; Retina; Visual pathway; Dark adaptation; Light adaptation (Chentanez, T.) **424**, 115

Cyclic guanosine monophosphate; Protein kinase; Voltage clamp; Cortex; Ionic conductance (Woody, C.D.) **424**, 193

Enkephalin; Globus pallidus; Dual-immunocytochemistry (Chang, H.T.) **426**, 197

Peripheral nerve; Conduction; Potassium channel; Neurotransmitter; Cyclic nucleotide; Cyclic guanosine monophosphate (Kendig, J.J.) **435**, 24

Hemicholinium-3; Presynaptic receptor; Quantal release; Central synapse (Poulain, B.) **435**, 63

Partial epilepsy; Premotor cortex; Striatum; γ -Aminobutyric acid (GABA); Glutamate (Ono, K.) **435**, 84

Bay K8644; Nicardipine; Dihydropyridine; Hippocampus; Spontaneously hypertensive rat (Brisac, A.-M.) **435**, 160

Hippocampus; Rhythmic slow-wave activity; Theta rhythm; Diazepam; Locomotion (Caudarella, M.) **435**, 202

Adenosine; Pertussis toxin; Adenosine 5'-N-ethylcarboxamide; Cerebral cortex; Rat (O'Regan, M.H.) **436**, 380

[³H]Acetylcholine binding

Alzheimer's disease; Muscarinic receptor; Nicotinic receptor; Agonist binding (Kellar, K.J.) **436**, 62

Acetylcholine level

Dopamine target cell supersensitivity; Dopaminergic denervation; Striatum; D₂-receptor (Paturle, L.) **402**, 383

Acetylcholine receptor

Muscle denervation; Bungarotoxin; Tetrodotoxin; Cyclic AMP-dependent protein kinase II (Held, I.R.) **407**, 341

Receptor metabolism; Lithium; Skeletal muscle; Cation; Phosphoinositide; Calcium (Pestronk, A.) **412**, 302

Transmission efficiency; Receptor turnover; α -Bungarotoxin (Rochel, S.) **435**, 41

Acetylcholine release

D₂ receptor; Rat brain; Gekko brain; Telencephalic structure (Stoof, J.C.) **404**, 273

Nucleus basalis; Cerebral cortex; Nucleus basalis of Meynert; Alzheimer's disease (Gardiner, I.M.) **407**, 263

Atropine sulfate; Cerebral cortex; Vasodilation; Cerebral blood flow; Fastigial nucleus (Arnerić, S.P.) **411**, 212

Choline acetyltransferase (ChAT) activation; Rat hippocampus; Depolarization (Carroll, P.T.) **414**, 401

Brain slice; Calcium; Frequency modulation; Hippocampus (Pohorecki, R.) **420**, 199

Acetylcholine synthesis

Ovariectomy; Estradiol; Choline uptake; Synaptosome (O'Malley, C.A.) **403**, 389

Acetylcholinergic system

Cortically projecting basal forebrain cell; Pallidal cell; Neuronal firing; Electroencephalogram; Cortical activation; Anesthetized rat (Détári, L.) **437**, 1

Acetylcholinesterase

Acetylcholine; Butyrylcholinesterase; Electron microscope; Histochemistry; Human retina (Hutchins, J.B.) **400**, 300

Fetal transplants; Frontal cortex; Choline acetyltransferase; Cytochrome oxidase; Morphology (Mufson, E.J.) **401**, 162

Choline acetyltransferase; Rabbit retina; Glutamate decarboxylase; Immunocytochemistry; Dendritic stratification (Brandon, C.) **401**, 385

Prolactin; Hypothalamus; Subcellular distribution; Synaptosome (Emanuele, N.V.) **407**, 223

Kinsmen Substance P; Nucleus basalis of Meynert; Immunohistochemistry; Alzheimer's disease; Human brain (Beach, T.G.) **408**, 251

Choline acetyltransferase; Substance P; Somatostatin (Martínez, H.J.) **412**, 295

Hemicholinium-3; Receptor autoradiography; Striatum; Acetylcholine; Striosome; Rabbit

(Rhodes, K.J.) **412**, 400

Choline acetyltransferase; Aging; Mouse; Diaphragm; Limb muscle (Washio, H.) **416**, 69

Basal ganglion; Catecholamine; Dopamine; Huntington's disease; Immunohistochemistry (Ferrante, R.J.) **416**, 141

Chronic bombesin; [³H]Spiperone binding; Glutamate decarboxylase; Choline acetyltransferase; Rat brain (Hsu, L.L.) **417**, 232

Chicken; Histochemistry; Immunohistochemistry; Retina; Ultrastructure (Millar, T.J.) **421**, 297

Acetylcholine; Choline acetyltransferase; Stress; Hippocampus; Hypothalamus (Fatranská, M.) **424**, 109

Substantia nigra pars compacta; Striatum; Caudate nucleus; Putamen; Striosome; Dopamine; Tyrosine hydroxylase (Jimenez-Castellanos, J.) **437**, 349

Acetylcholinesterase histochemistry

Dopamine receptor; [³H]*N-n*-propylorapomorphine; Striosome; Dipping autoradiography; In vivo ligand binding (Loopuijt, L.D.) **405**, 405

Acetylcholinesterase staining

Alzheimer's disease; Senile plaque; Substantia innominata; Cortex (Tago, H.) **406**, 363

3-Acetylpyridine

Deep cerebellar nucleus; Glutamic acid decarboxylase; Cerebellar cortex; Climbing fiber; Purkinje cell; Motor behavior; Behavioral recovery; Inferior olive (Sukin, D.) **426**, 82

Cyclic guanosine monophosphate (cGMP); Climbing fiber; Purkinje cell; Cerebellum; Simple spike; Complex spike (Oltmans, G.A.) **437**, 183

N-Acetylaspartylglutamate

Aspartate; Glutamate; Cultured neuron; Chick cerebellum; Antagonist; Intracellular recording (Mori-Okamoto, J.) **401**, 60

Glutamate; Immunocytochemistry; Lateral olfactory tract; Mital cell; Neuropeptide; Olfactory bulb (Blakely, R.D.) **402**, 373

Lateral septal nucleus; Fimbria; Microiontophoresis; In vitro autoradiography; Receptor (Joëls, M.) **403**, 192

Immunohistochemistry; Neuropeptide; Retina; Spinal sensory neuron; Amphibian (Kowalski, M.M.) **406**, 397

Dipeptide; Neuroexcitant; Purkinje cell; Cerebellum (Sekiguchi, M.) **423**, 23

N-Acetylserotonin

Mouse; Pineal; Melatonin;
N-Acetyltransferase;
 Hydroxyindole-*O*-methyltransferase;
 Serotonin (Ebihara, S.) **416**, 136

N-Acetyltransferase

Mouse; Pineal; Melatonin;
 Hydroxyindole-*O*-methyltransferase;
 Serotonin; *N*-Acetylserotonin
 (Ebihara, S.) **416**, 136

Rat; Pineal; Circadian rhythm;
 Entrainment (Illnerová, H.) **417**, 167

N-Acetyltransferase activity

Pineal gland; Rod photopigment;
 Albino rat (Bronstein, D.M.) **406**, 352

 γ -Acetylenic GABA

Retina; Rat; γ -Aminobutyric acid
 (GABA); γ -Vinyl GABA; Gabaculine
 (Cubells, J.F.) **419**, 208

Acid phosphatase

α -Mannosidase; β -Galactosidase;
 Hexosaminidase; β -Glucuronidase;
 β -Glucosidase; Pineal; Retina;
 Lysozyme; Rhythm (Vaughan, M.K.)
417, 321

Acid secretion

β -Endorphin; Gastrin; Autonomic
 nervous system; Vagotomy
 (Lenz, H.J.) **413**, 1

Vasoactive-intestinal peptide; Brain
 (Hernandez, D.E.) **420**, 129

Acid-base homeostasis

Protein; Ischemia; Brain infarction;
 Buffer capacity; Acidosis (Kraig, R.P.)
410, 390

Acidic amino acid receptor

Vestibular nucleus;
N-Methyl-D-aspartate; Dendritic cable
 property; Modulator; In vitro
 (Knöpfel, T.) **426**, 212

Acidosis

Protein; Acid-base homeostasis;
 Ischemia; Brain infarction; Buffer
 capacity (Kraig, R.P.) **410**, 390

Aconitine

Rainbow trout brain synaptosome;
 Voltage-dependent sodium channel;
 Batrachotoxin; Veratridine;
 Tetrodotoxin; *Leiurus quinquestriatus*
 venom; DDT (Stuart, A.M.) **437**, 77

Acoustic-reflex

Stapedius; Motoneuron; Recruitment;
 Size-principle; Hearing (Kobler, J.B.)
425, 372

Acrylamide neuropathy

Rat sciatic nerve; Node of Ranvier;
 Voltage clamp; Electron microscopy
 (Brismar, T.) **423**, 135

Actin

Nerve regeneration; Tetrodotoxin;
 Axonal transport; Synaptogenesis;
 Axonal growth; Tubulin; Goldfish
 (Antonian, E.) **400**, 403

Action potential

Pituitary cell; Muscarinic response;
 Potassium channel (Hedlund, B.)
402, 311

Conscious; Respiration; Olfaction;
 Brainstem (Du Pont, J.S.) **414**, 163

Stria terminalis; Amygdala;
 Hypothalamus; Convergence
 (Dalsass, M.) **425**, 346

Spinal cord neuron; Cell culture;
 Phencyclidine (PCP);
 Tetraethylammonium (TEA);
 4-Aminopyridine (4-AP); Potassium
 channel; Voltage clamp
 (Aguayo, L.G.) **436**, 9

Action potential repolarization

Afterhyperpolarization; Ca-activated
 K-current; Hippocampal pyramidal
 cell; Calcium chelator;
 1,2-Bis(*o*-aminophenoxy)-
 ethane-N,N,N',N'-tetraacetic acid
 (BAPTA); EGTA (Storm, J.F.)
435, 387

Activation pattern

Presaccadic spike potential; Computer
 model; Extraocular muscle
 (Thickbroom, G.W.) **422**, 377

Active avoidance

Dopamine; Noradrenaline; Ventral
 tegmental area; Septum; Frontal
 cortex; Attention; Conditioned
 blocking (Oades, R.D.) **406**, 136

Hippocampus; Area dentata; Perforant
 path; Post-tetanic long-term
 potentiation (LTP); Post-conditioning
 long-term potentiation (LTP);
 Glycoprotein; Fucose; Memory
 formation (Pohle, W.) **410**, 245

Active sleep

Ibotenic acid; Hippocampus; Septum;
 Quiet sleep; Rhythmical slow activity;
 Cholinergic neuron;
 Electroencephalogram (Stewart, D.J.)
423, 101

Activity

Nucleus accumbens; Lateralization;
 Behavior; Asymmetry (Kubos, K.L.)
401, 147

Cysteamine; Somatostatin;
 Norepinephrine; Dopamine;
 Cerebrospinal fluid (CSF); Memory;
 Rat (Haroutunian, V.) **403**, 234

Analgesia; Stress; Stress-induced
 analgesia; Calcium channel antagonist;
 Diltiazem; Nifedipine; Verapamil; BAY
 K 8644; Opioid analgesia
 (Kavaliers, M.) **408**, 403

Stress-induced analgesia;
 Immobilization; Opioid analgesia;
 Naloxone; ICI 154, 129; Deer mice;
Peromyscus maniculatus; Sex; Genetic;
 Island-Mainland population
 (Kavaliers, M.) **425**, 49

Activity-dependent sharpening

Growth-associated protein; Sensitive

period; Axonal regeneration; Axonal
 transport; Goldfish; Retinotectal
 pathway (Benowitz, L.I.) **417**, 118

 θ -Activity

Transplantation; Hippocampus;
 Electroencephalogram; Unit activity;
 Behavior (Buzsáki, G.) **400**, 321

Regeneration; Embryonic transplant;
 Electroencephalogram; Unit activity;
 Hippocampus; Septum; Locus
 coeruleus; Behavior (Buzsáki, G.)
400, 334

Acute ethanol

Cerebral cortex; Hippocampus;
 Striatum; Calcium channel
 (Rius, R.A.) **402**, 359

Acute starvation

Norepinephrine; Tyrosine hydroxylase;
 Medialbasal hypothalamus;
 Semistarvation (Philipp, E.) **413**, 53

Acute-phase response

Rabbit; Fever; Slow-wave sleep;
 Glycoprotein (Shoham, S.) **419**, 223

Adaptation

Stretch reflex; Catching; Anticipation;
 Antagonist coactivation
 (Lacquaniti, F.) **406**, 373

Adaptive plasticity

Optokinetic reflex; Eye movement;
 Vestibuloocular reflex; Rabbit
 (Barmack, N.H.) **437**, 111

Adduct

Alcohol; Acetaldehyde; Brain;
 Microtubule; Tubulin; Polymerization
 (McKinnon, G.) **416**, 90

Adenosine

Caffeine; Sleep; Rat (Yanik, G.)
403, 177

Perivascular microapplication;
 Hydrogen ion; Potassium ion;
 Bradykinin; DC potential (Wahl, M.)
411, 72

Hippocampus;
 Phenylisopropyladenosine;
 Theophylline; Electrophysiology
 (Brodie, M.S.) **415**, 323

Ro 5-4864; Benzodiazepine; Cerebral
 cortex; Neuron (Phillis, J.W.) **416**, 171

8-Cyclopentyl 1,3-dimethylxanthine;
 Proconvulsant (Dragunow, M.)
417, 377

Olfaction; Lobster; Electrophysiology;
 Neurotransmitter; Purinergic;
 Adenosine monophosphate
 (Derby, C.D.) **421**, 57

Modulation; Synaptic transmission;
 Glutamate; Rat hippocampal slice
 (Proctor, W.R.) **426**, 187

Pertussis toxin; Acetylcholine;
 Adenosine 5'-*N*-ethylcarboxamide;
 Cerebral cortex; Rat (O'Regan, M.H.)
436, 380

Adenosine 3',5'-monophosphate (Cyclic AMP)

Adenosine 3',5'-monophosphate (Cyclic GMP); Aluminum; Acetylcholine (Johnson, G.V.W.) **403**, 1

Adenosine 3',5'-monophosphate (Cyclic GMP)

Adenosine 3',5'-monophosphate (Cyclic AMP); Aluminum; Acetylcholine (Johnson, G.V.W.) **403**, 1

Adenosine 5'-N-ethylcarboxamide

Adenosine; Pertussis toxin; Acetylcholine; Cerebral cortex; Rat (O'Regan, M.H.) **436**, 380

Adenosine agonist

Adenosine antagonist; Hippocampus; Cerebellum; Glutamate; Transmitter release; Excitatory postsynaptic potential (EPSP) (Prestwich, S.A.) **405**, 130

Adenosine analog

Fourth ventricle; Blood pressure; Heart rate; Caffeine (Barraco, R.A.) **424**, 17

Adenosine antagonist

Adenosine agonist; Hippocampus; Cerebellum; Glutamate; Transmitter release; Excitatory postsynaptic potential (EPSP) (Prestwich, S.A.) **405**, 130

Adenosine deaminase

Adenosine uptake; Nitrobenzylthioinosine; Ontogeny; Brain (Geiger, J.D.) **436**, 265

Adenosine diphosphate ribosylation

Pertussis toxin; Opioid; G-protein; Adenylate cyclase (Abood, M.E.) **417**, 70

Adenosine monophosphate

Olfaction; Lobster; Electrophysiology; Neurotransmitter; Purinergic; Adenosine (Derby, C.D.) **421**, 57

Adenosine receptor

Autoradiography; Cerebral ischemia; Hippocampus; Muscarinic receptor; Septal nucleus; Striatum (Onodera, H.) **415**, 309

Brain; Maudsley rat; Autoradiography; Molecular layer (Marangos, P.J.) **421**, 69

Hippocampus; Theophylline; Caffeine; Kainic acid; Metrazol; Epilepsy (Ault, B.) **426**, 93

Adenosine triphosphate-dependent calcium uptake

Neuronal endoplasmic reticulum; Lysed brain synaptosome; Caffeine; Cyclic adenosine 3',5'-monophosphate (Mekhail-Ishak, K.) **426**, 62

Adenosine uptake

Nitrobenzylthioinosine; Ontogeny; Adenosine deaminase; Brain (Geiger, J.D.) **436**, 265

Adenylate cyclase

Cyclic adenosine 3',5'-phosphate (AMP); Gonadal steroid; Castration; Hippocampus (Harrelson, A.) **404**, 89

Serotonin; Hippocampus; G protein; Population spike; Pertussis toxin (Clarke, W.P.) **410**, 357

Dopamine autoreceptor; Pertussis toxin; Substantia nigra (Innis, R.B.) **411**, 139

Pertussis toxin; Adenosine diphosphate ribosylation; Opioid; G-protein (Abood, M.E.) **417**, 70

D₁-receptor; Cyclic AMP; Striatum; Superior cervical ganglion; Dopamine (Ariano, M.A.) **421**, 245

Enkephalin; Morphine; Opioid peptide; Cochlea; Lateral olivocochlear system; Guinea pig (Eybalin, M.) **421**, 336

Adenylate cyclase/cyclic AMP system

Pertussis toxin; Dorsal horn response; Primary afferent network; Spinal cord culture; Opioid network (Crain, S.M.) **400**, 185

Adipokinetic hormone

Neurosecretion; Corpus cardiacum; Octopamine; Cyclic adenosine monophosphate; Calcium; Locust (Pannabecker, T.) **423**, 13

Adipokinetic hormone (AKH)

Red pigment concentrating hormone (RPCH); Neuropeptide; Immunocytochemistry; Invertebrate endocrinology; *Lymnaea*; *Porcellio*; *Lithobius*; *Astacus* (Schooneveld, H.) **406**, 224

Admittance

N-Methyl-D-aspartate receptor; Fictive locomotion; Voltage clamp; Impedance; Voltage-dependent conductance; Excitatory synaptic current; Lamprey (Moore, L.E.) **419**, 397

Adrenal

Pituitary; Endogenous opioid; Anticonvulsant; Maximal electroshock seizure (Long, J.B.) **402**, 155

Phenylethanolamine N-methyltransferase; Isozyme; Characterization; Bovine (Wong, D.L.) **410**, 32

Adrenal gland

Prolactin; Sulpiride; Apomorphine; Dopamine; Sodium (Collu, R.) **401**, 23

Enkephalin; Chronic; Nicotine; Catecholamine; Guinea pig (Hexum, T.D.) **406**, 370

Adrenal medulla

Calcium antagonist; Calcium channel; Chirality; Dihydropyridine receptor; Catecholamine release (Fonteriz, R.I.) **408**, 359

Neural transplant; Vascular

permeability; Blood-brain barrier; Macromolecule; Catecholamine (Rosenstein, J.M.) **414**, 192

Adrenal medullary secretion

Rat adrenal medulla; Epinephrine secretion; Norepinephrine secretion; Subthalamus; Zona incerta (Matsui, H.) **417**, 158

Adrenal steroid

Stress; Benzodiazepine receptor; Benzodiazepine (Miller, L.G.) **414**, 395

Adrenalectomy

Oxiracetam; Piracetam; Aniracetam; Pramiracetam; Passive avoidance; Peripheral mechanism; Nootropics (Mondadori, C.) **435**, 310

Corticotropin-releasing factor; Hypothalamus; Paraventricular nucleus; Vasopressin (Sawchenko, P.E.) **437**, 253

Adrenaline

Locus coeruleus; Deoxycorticosterone acetate (DOCA)-salt hypertension; Glutamate (Berecek, K.H.) **401**, 303

β -Adrenoceptor; Depolarization; Voltage-dependent g_K; M-channel (Akasu, T.) **405**, 375

Immunocytochemistry; Brainstem; Ultrastructure; C₁ area; Catecholamine (Milner, T.A.) **411**, 28

Immunocytochemistry; L-Glutamate decarboxylase; Catecholamine; Brainstem; C₁ area (Milner, T.A.) **411**, 46

Locus coeruleus; Amphetamine; Learning and memory; Catecholamine (Holdefer, R.N.) **417**, 108

Adrenaline release

Noradrenaline release; Intracerebral dialysis; Phenylethanolamine-N-methyltransferase (PNMT) inhibitor; Idazoxan; Monoamine oxidase (MAO) inhibitor; N-(2-Chloroethyl)-N-ethyl-2-bromobenzylamine (DSP₄) (Routledge, C.) **426**, 103

Adrenaline secretion

Rat adrenal medulla; Adrenal medullary secretion; Norepinephrine secretion; Subthalamus; Zona incerta (Matsui, H.) **417**, 158

Adrenaline-stimulated hyperglycemia

Thyrotropin-releasing hormone; Thyrotropin-releasing hormone analog; Autonomic nervous system; Insulin; Mouse (Amir, S.) **435**, 112

Adrenergic agonist and antagonist

Norepinephrine; Adrenergic receptor; Hypothalamic ventromedial nucleus; Estrogen; Brain slice (Kow, L.-M.) **413**, 220

Adrenergic neuron

Ventrolateral medulla; Locus coeruleus; Anterograde

neuroanatomical tracing
(Guyenet, P.G.) **406**, 171

Adrenergic receptor

Kidney; Renal nerve;
Neurotransmitter; Hypertension
(Sripandikulchai, B.) **400**, 91

Glycogen; Norepinephrine; Energy
metabolism; Locus coeruleus; Epilepsy
(Magistretti, P.J.) **403**, 181

Norepinephrine; Adrenergic agonist
and antagonist; Hypothalamic
ventromedial nucleus; Estrogen; Brain
slice (Kow, L.-M.) **413**, 220

Mutant mouse; Locus coeruleus;
Hyperinnervation (Levitt, P.) **418**, 174

Adrenoceptor

Mianserin; Citalopram; Dopamine
release; Nucleus accumbens; Striatum
(Russell, V.A.) **410**, 78

Haloperidol; Cerebral cortex;
Brainstem; Muscarinic receptor;
GABA_A receptor; Benzodiazepine
receptor (Pazo, J.H.) **414**, 405

Adrenocorticotrophic hormone

Amygdala; Kindled epilepsy; Learning;
Nucleus parafascicularis;
Hypophysectomy (Rogers III, O.L.)
403, 96

Corticotropin-releasing hormone
(CRF); Reserpine; Catecholamine;
Hypothalamus (Suda, T.) **405**, 247

A₁ cell group; Catecholaminergic
pathway; Hemorrhage; Ventrolateral
medulla; Electrolytic lesion;
Vasopressin (Carlson, D.E.) **406**, 385

Prostaglandin E₂; Corticotropin
releasing factor; Pituitary; Cell culture
(Sobel, D.O.) **411**, 102

Neuropeptide Y; Hypothalamus;
Paraventricular nucleus;
Corticosterone; Desamido-NPY
(Wahlestedt, C.) **417**, 33

Oxytocin; Metyrapone (Chiodera, P.)
420, 178

Nitrous oxide; β -Endorphin;
 α -Melanocyte stimulating hormone;
Medial basal hypothalamus;
Periaqueductal gray (Zuniga, J.R.)
420, 57

Yawning; Penile erection; Electrolytic
lesion; Paraventricular nucleus;
Dopamine agonist; Oxytocin
(Argiolas, A.) **421**, 349

Opiate receptor; μ -Receptor;
 κ -Receptor; Naloxone; Morphine; MR
2034; Corticotropin releasing factor
(CRF) (Nikolarakis, K.) **421**, 373

Cocaine; Corticotropin-releasing factor
(CRF); Drug abuse (Rivier, C.) **422**, 403

Suprachiasmatic nucleus; Circadian
rhythm lesion; Rat (Cascio, C.S.)
423, 173

Rhesus monkey;

Corticotrophin-releasing hormone;
Diurnal rhythm; Cerebrospinal fluid
(Kalin, N.H.) **426**, 385

Baroreceptor area; β -Endorphin;
 α -Melanocyte-stimulating hormone
(α -MSH); Brainstem lesion;
Hypothalamus; Nucleus of the solitary
tract (Palkovits, M.) **436**, 323

Adrenocorticotrophic hormone (4–10)

ORG 2766; Motor activity; Short-term
isolation; Opioid; Naltrexone
(Wolterink, G.) **421**, 41

α -Adrenoceptor antagonist

REM sleep; Phenolamine; Body
temperature (Kent, S.) **415**, 169

α_1 -Adrenoceptor

α_2 -Adrenoceptor; β -Adrenoceptor;
Distribution; [³H]Prazosin;
[³H]Idazoxan; [³H]Dihydroalprenolol;
Catecholamine (Diop, L.) **402**, 403

Mammalian brain; Primate brain;
Autoradiography; Hippocampus;
Olfactory bulb (Palacios, J.M.) **419**, 65

α_2 -Adrenoceptor

Restraint stress; Receptor modulation;
[³H]Rauwolscine; Radioligand binding
assay; Rat brain (Nukina, I.) **401**, 30

α_1 -Adrenoceptor; β -Adrenoceptor;
Distribution; [³H]Prazosin;
[³H]Idazoxan; [³H]Dihydroalprenolol;
Catecholamine (Diop, L.) **402**, 403

Quantitative autoradiography;
Spontaneously hypertensive rat;
Essential hypertension; Cardiovascular
control; Blood pressure regulation
(Gehlert, D.R.) **409**, 308

CAMP; Antidepressant (Nomura, S.)
410, 195

Separation distress; Separation anxiety;
Isolation call; Squirrel monkey;
Clonidine; Yohimbine (Harris, J.C.)
410, 353

Cyclic adenosine monophosphate;
Cortex; Striatum; Neuron; Primary
culture; Pertussis toxin (Weiss, S.)
414, 390

Dorsal noradrenergic bundle;
6-Hydroxydopamine; Noradrenaline;
 β_1 -Adrenoceptor; Neocortex; Rat
(Dooley, D.J.) **420**, 152

Clonidine; Idazoxan; Pressor area;
Spontaneously hypertensive rat;
Ventrolateral medulla; Wistar-Kyoto
rat (Punnen, S.) **422**, 336

α_2 -Adrenoceptor up-regulation

Lateral reticular nucleus; Locus
coeruleus/subcoeruleus;
Stimulation-produced antinociception;
Descending inhibition; Norepinephrine
depletion; 6-Hydroxydopamine
(6-OHDA); Supersensitivity
(Janss, A.J.) **400**, 40

β -Adrenergic

Sertraline; Serotonin;
[³H]Dihydroalprenolol; In vitro
receptor autoradiography
(Byerley, W.F.) **421**, 377

β -Adrenoceptor

Supersensitivity; Norepinephrine;
Morphine dependence; Withdrawal;
Parietal cortex; Receptor binding;
Microiontophoresis (Moises, H.C.)
400, 110

α_1 -Adrenoceptor; α_2 -Adrenoceptor;
Distribution; [³H]Prazosin;
[³H]Idazoxan; [³H]Dihydroalprenolol;
Catecholamine (Diop, L.) **402**, 403

Epinephrine; Depolarization;
Voltage-dependent g_K; M-channel
(Akasu, T.) **405**, 375

Neostriatum; Synaptosome;
Somatosensory cortex; Anterior
cingulate cortex; Postsynaptic density;
Membrane recycling (Aoki, C.)
437, 264

β_1 -Adrenoceptor

Dorsal noradrenergic bundle;
6-Hydroxydopamine; Noradrenaline;
 α_2 -Adrenoceptor; Neocortex; Rat
(Dooley, D.J.) **420**, 152

α - and β -Adrenoceptors

Central amygdaloid nucleus; Renal
function; Conscious rats; Hypertension;
Environmental stress (Koeppke, J.P.)
404, 80

Adriamycin

Blood-brain barrier; Disruption;
Mannitol; Neurotoxicity;
Chemotherapy; Rat (Kondo, A.)
412, 73

Adult

Substance P; Brainstem; Human;
Immunocytochemistry (Nomura, H.)
404, 365

Adult chronic spinal cat

Clonidine; Yohimbine; Locomotion;
Cutaneous reflex; Noradrenaline
(Barbeau, H.) **437**, 83

Adult mouse

Cell membrane expansion; Tissue
culture; Dorsal root ganglion; Neuron;
Inhibition of action potential;
2-Decenoic acid; Fatty acid (Horie, H.)
411, 298

Tissue culture; Dorsal root ganglion;
Neuron; Taxol; Colchicine; Axonal
transport; Microtubule (Horie, H.)
420, 144

Adult rat

Synaptic plasticity; Synaptogenesis;
Lateral septum; Estrogen
(Miyakawa, M.) **436**, 184

Aequorin

Inositol 1,4,5-trisphosphate;
Photoreceptor; Calcium; Discrete
burst; Microinjection (Corson, D.W.)
423, 343

AF-DX 116

Cerebral cortex; Muscarinic cholinergic receptor; Carbamylcholine; Inositol phosphate; Pirenzepine (Smith, T.L.) **420**, 362

AF64A

Cholinergic neurotoxin; Learning and memory; Working memory; Acetylcholine; Hippocampus (Chrobak, J.J.) **414**, 15

Affective defense behavior

Anterior hypothalamus; Ventromedial hypothalamus; Intracerebral injection; Noradrenaline; Yohimbine (Barrett, J.A.) **426**, 381

Midbrain central gray; Quiet biting attack behavior; 2-Deoxy- ^{14}C glucose autoradiography; ^3H Leucine autoradiography (Shaikh, M.B.) **437**, 9

Afferent fiber

Dorsal root ganglion; Ventral root; Bifurcation projection; Calcitonin gene-related peptide; Rat (Fang, X.-B.) **402**, 393

Capsaicin; Spinal cord; Dorsal horn; Sural nerve; Somatosensory system (Tattersall, J.E.H.) **416**, 337

Afferent innervation

Neuropeptide; Monkey; Thalamus (Molinari, M.) **426**, 270

Afferent nerve fiber

Thymus; Nodose ganglion; Horseradish peroxidase (Magni, F.) **424**, 379

Afferents to the inferior colliculus

Corticotropin-releasing factor; Lateral hypothalamic area; Zona incerta; Combination of HRP and immunohistochemistry (Sakanaka, M.) **414**, 68

Affinity purification

Angiotensin II; Angiotensin III; Rat brain; Immunohistochemistry (Imboden, H.) **426**, 225

African Green monkey

1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP); Parkinson's disease; Ventral tegmental area; Mesolimbic; Nigrostriatal; Cerebrospinal fluid; Dopamine; Homovanillic acid; 3-Methoxy-4-hydroxyphenylglycol (MHPG) (Elsworth, J.D.) **415**, 293

Afterdischarge

Carbamazepine; Anticonvulsant; Epilepsy; Hippocampus (Smith, K.L.) **400**, 371

Nerve fiber cross-talk; Nerve injury; Nerve pathophysiology; Neuroma; Pain (Lisney, S.J.W.) **415**, 122

Kindling; Hippocampus; Entorhinal cortex; Cholinergic input; Paroxysmal fast wave; Medial septum; Scopolamine (Leung, L.-W.S.) **419**, 173

Afterhyperpolarization

Frog spinal motoneuron; Quisqualate;

N-methyl-D-aspartate; Kainate; Sodium pump (Hackman, J.C.) **407**, 94

Aging; Serotonin; Hippocampal dentate granule cell (Baskys, A.) **419**, 112

Action potential repolarization; Ca-activated K-current; Hippocampal pyramidal cell; Calcium chelator; 1,2-Bis(*o*-aminophenoxy)-ethane-N,N,N',N'-tetraacetic acid (BAPTA); EGTA (Storm, J.F.) **435**, 387

Age

Retina; Stress; Photoreceptor; Hormone (O'Steen, W.K.) **426**, 37

Age-at-lesion effect

Central nervous system (CNS) reorganization; Neural plasticity; Sprouting; Thalamus; Motor cortex; Hemispherectomy (Villablanca, J.R.) **410**, 219

Aged cat

Caudate nucleus; Neurophysiology; Chronic recording; Reduced excitability (Levine, M.S.) **405**, 389

Aggression

Epilepsy; Seizure; Emotion; Interictal behavior; Defence reaction; Kainic acid; Temporal lobe (Griffith, N.) **400**, 360

Aging

Caudate nucleus; Neurophysiology; Basal ganglion; Substantia nigra; Cat (Levine, M.S.) **401**, 213

Senile dementia; Alzheimer's disease; Dentate gyrus; Dendrite; Human; Hippocampus (Flood, D.G.) **402**, 205

Parkinson's disease; Neurotoxicity; Dopamine; Substantia nigra; Cell degeneration (Ricaurte, G.A.) **403**, 43

Muscarinic receptor; Dopamine receptor; D₁ receptor; D₂ receptor (Rinne, J.O.) **404**, 162

Neurotransmitter; Catecholamine; Salmon (Ebbesson, S.O.E.) **405**, 175

Basal forebrain; Cholinergic system; Hippocampus; Receptor (Springer, J.E.) **407**, 180

Rat strain; Cholinergic index; Dopamine uptake; Stress (Gilad, G.M.) **408**, 247

Senile dementia; Alzheimer's disease; CA₂₋₃; Dendrite; Human; Hippocampus (Flood, D.G.) **409**, 88

Circadian rhythm; Enriched environment; Male rat; Morphometry; Suprachiasmatic nucleus; Vasopressin (Rooszendaal, B.) **409**, 259

Pineal body; Human; Histology; Calcification; Cyst; Hypertension (Hasegawa, A.) **409**, 343

Tuberoinfundibular neuron; Dopamine; Prolactin; Pituitary tumor; Estrogen

(Phelps, C.J.) **411**, 108

Sleep-wakefulness; Circadian rhythm; Period length; Free-running; Rat (Van Gool, W.A.) **413**, 384

Choline acetyltransferase; Acetylcholinesterase; Mouse; Diaphragm; Limb muscle (Washio, H.) **416**, 69

Rat; Cholinergic neuron; Septum; Septo-hippocampal pathway; Single unit recording (Lamour, Y.) **416**, 277

Dopamine receptor subtype; Motor function; Biosynthesis (Henry, J.M.) **418**, 334

Serotonin; Hippocampal dentate granule cell; Afterhyperpolarization (Baskys, A.) **419**, 112

Serotonin uptake; Serotonin release; Monoamine oxidase activity; Hypothalamus; Monoamine balance (Navarro, H.A.) **421**, 291

Cerebellum; In oculo brain graft; Norepinephrine; Electrophysiology; In vivo electrochemistry (Granholm, A.-C.) **423**, 71

Synapse; Plasticity; Cerebral cortex; Human (Adams, I.) **424**, 343

^3H Imipramine binding; Proteinaceous; 5-Hydroxytryptamine; Desipramine; Human brain; Dementia (Marcusson, J.O.) **425**, 137

Na⁺/Ca²⁺ exchange; Calcium channel; Intracellular calcium (Martínez, A.) **435**, 249

Horseradish peroxidase; Motoneuron; Fast twitch muscle fiber; Slow twitch muscle fiber; Tibialis anterior muscle; Soleus muscle; Rat (Ishihara, A.) **435**, 355

Stress; Septohippocampal system; Cholinergic neuron; Pyramidal neuron; Rat strain (Gilad, G.M.) **436**, 311

Agonist binding

Alzheimer's disease; Muscarinic receptor; Nicotinic receptor; ^3H Acetylcholine binding (Kellar, K.J.) **436**, 62

Agonistic behavior

Female hamster; Dual estradiol implant; Bilateral estradiol implant; Scent-marking behavior; Lordosis; Medial preoptic area; Ventromedial hypothalamus (Takahashi, L.K.) **425**, 337

 κ -Agonist

Intrathecal administration; Spinal cord; Rat dorsal horn; κ -Opioid receptor; Antinociception; Analgesia; U50488H; Ethylketocyclazocine; Dynorphin A₁₋₁₇ (Knox, R.J.) **415**, 21

Airway resistance

Trachea; Parasympathetic ganglion; Smooth muscle (Mitchell, R.A.) **437**, 157

Albino

Retina; Ganglion cell; Monoclonal antibody; Rabbit (Oyster, C.W.) **425**, 25

Albino quail

Glaucoma; Sex-linked recessive gene; Buphtalmos (Weidner, C.) **419**, 357

Albino rat

Pineal gland; *N*-Acetyltransferase activity; Rod photopigment (Bronstein, D.M.) **406**, 352

Circadian rhythmicity; Suprachiasmatic nucleus; Deoxyglucose; Energy metabolism; Squirrel monkey (Schwartz, W.J.) **424**, 249

Alcohol

Barbiturate; Benzodiazepine; Ro 15-4513; Bicuculline; Seizure threshold; Mouse (Nutt, D.J.) **413**, 193

Acetaldehyde; Brain; Microtubule; Tubulin; Polymerization; Adduct (McKinnon, G.) **416**, 90

Mouse; Protein polymorphism; LTW-4; Two-dimensional electrophoresis; Ethanol acceptance; Pharmacogenetics; Inbred strain; Recombinant inbred strain (Goldman, D.) **420**, 220

Alcohol-narcosis

Thyrotropin-releasing hormone; Neurotoxin; ICI 174864 enkephalin (Widdowson, P.S.) **424**, 281

Aldehyde dehydrogenase

Anesthesia; Barbiturate; Disulfiram; Hexobarbital; Noradrenaline; Serotonin; Sleeping-time (Nilsson, G.E.) **409**, 265

Aldehyde dehydrogenase inhibitor

Diethyldithiocarbamate; Disulfiram; Indole-3-acetaldehyde; Tryptophan hydroxylase; 5-Hydroxyindole-3-acetaldehyde (Nilsson, G.E.) **409**, 374

Aldose reductase

Axonal transport; Diabetes mellitus; Neuropathy; Streptozotocin; Substance P (Robinson, J.P.) **426**, 339

Aldosterone

Circumventricular organ; Subcommissural organ; Catecholamine; Sodium excretion; Eating; Drinking behavior (Dundore, R.L.) **401**, 122

Corticosterone; Hippocampus; Hypothalamus; Receptor; Mineralocorticoid; Glucocorticoid (Yongue, B.G.) **436**, 49

Allograft

Axon guidance; Retina; Cortex; Xenograft; Superior colliculus (Hankin, M.H.) **408**, 344

Allopurinol

Uric acid; Cerebrospinal fluid; Xanthine oxidase; Oxipurinol (Kim, P.) **402**, 87

Alpha₂-adrenergic agonist

Startle; Cyclic adenosine monophosphate; Pertussis toxin; 2,-(2,6-Diethylphenylamino)-2-imidazoline hydrochloride (Kehne, J.H.) **406**, 87

Aluminum

Adenosine 3',5'-monophosphate (Cyclic AMP); Adenosine 3',5'-monophosphate (Cyclic GMP); Acetylcholine (Johnson, G.V.W.) **403**, 1

Neurotransmitter release; Synaptic activity; Neurotoxicity (Banin, E.) **423**, 359

Alzheimer's disease

Cholinergic neurotransmission; Muscarinic acetylcholine receptor; Irreversible muscarinic acetylcholine antagonist; Propylbenzilylcholine mustard (PrBCM); Passive avoidance; Memory deficit; Learning process (Fukuchi, I.) **400**, 53

Neocortex; Serotonin; 5-Hydroxyindoleacetic acid; Noradrenaline;

3-Methoxy-4-hydroxyphenylglycol; Dopamine; Dihydroxyphenylacetic acid; Homovanillic acid; Choline acetyltransferase (Palmer, A.M.) **401**, 231

Somatostatin; Cholinergic system; Post-mortem tissue; Cerebrospinal fluid (CSF); Pathogenesis (Reinikainen, K.J.) **402**, 103

Aging; Senile dementia; Dentate gyrus; Dendrite; Human; Hippocampus (Flood, D.G.) **402**, 205

Senile dementia; Dendrite; Spine density; Dentate gyrus; Granule cell; Golgi-rapid study; Morphometry; Human brain (De Ruiter, J.P.) **402**, 217

Hirano body; Tau protein; Cytoskeleton; Neurofibrillary tangle; Paired helical filament; Immunocytochemistry (Galloway, P.G.) **403**, 337

Multiple opioid receptor; Human brain; Radioreceptor assay (Hiller, J.M.) **406**, 17

Choline acetyltransferase; Nucleus basalis; Somatostatin; Noradrenaline; 5-Hydroxytryptamine; Neocortex; Excitotoxin (Fine, A.) **406**, 326

Acetylcholinesterase staining; Senile plaque; Substantia innominata; Cortex (Tago, H.) **406**, 363

Acetylcholine release; Nucleus basalis; Cerebral cortex; Nucleus basalis of Meynert (Gardiner, I.M.) **407**, 263

Correlation matrix; Positron emission tomography; Deoxyglucose; Brain metabolism (Horwitz, B.) **407**, 294

Colchicine; Hippocampal lesion;

Choline acetyltransferase activity; T-maze learning; Glutamate receptor (Nakagawa, Y.) **408**, 57

Kinsmen Substance P; Acetylcholinesterase; Nucleus basalis of Meynert; Immunohistochemistry; Human brain (Beach, T.G.) **408**, 251

Aging; Senile dementia; CA₂₋₃; Dendrite; Human; Hippocampus (Flood, D.G.) **409**, 88

Senile dementia; Neostriatum; Large neuron; Morphometry (Oyanagi, K.) **411**, 205

Neocortex; Catecholamine; Dopamine; Noradrenaline; Acetylcholine; Human brain (Palmer, A.M.) **414**, 365

Microtubule; Dendrite; Frontal cortex (Paula-Barbosa, M.) **417**, 139

Ethanolamine; Phosphoethanolamine; Huntington's disease; Cerebral cortex; Striatum (Ellison, D.W.) **417**, 389

Parvalbumin; Immunocytochemistry; Cerebral cortex; Postmortem brain; Senile dementia (Arai, H.) **418**, 164

Paired helical filaments; Cytoskeleton; Neurofilament; Microtubule associated protein; Immunocytochemistry (Perry, G.) **420**, 233

Choline acetyltransferase; Steady-state kinetics; Choline (Nordström, Ö.) **420**, 371

Ethylcholine aziridinium ion (AF64A); Acetylcholine; Noradrenaline; Dopamine; Hippocampus (Hörtnagl, H.) **421**, 75

Nucleus basalis of Meynert; Nerve cell count (Doucette, R.) **422**, 357

Pick's disease; Mitochondrion; Glucose metabolism (Sims, N.R.) **436**, 30

Muscarinic receptor; Nicotinic receptor; [³H]Acetylcholine binding; Agonist binding (Kellar, K.J.) **436**, 62

Amacrine cell

Retina; Monolayer culture; Reaggregate culture; γ -Aminobutyric acid; Monoclonal antibody; Rat (Akagawa, K.) **408**, 154

Immunohistochemistry; L-DOPA decarboxylase; L-Histidine decarboxylase; Horizontal cell; Histaminergic neuron; Neurotransmitter; Guinea pig (Ando-Yamamoto, M.) **410**, 269

Immunocytochemistry; Retina; LANT-6; Ganglion cell; Biochemistry (Eldred, W.D.) **424**, 361

Vasoactive intestinal polypeptide; Retina; Immunohistochemistry (Sagar, S.M.) **426**, 157

Amastatin

Angiotensin II; Angiotensin III; Brain; Iontophoresis; Bestatin; Sar¹-angiotensin II (Harding, J.W.)

424, 299

Ambient heatingFever; Locus coeruleus; Noradrenergic neuron; Stress (Morilak, D.A.) **422**, 17**Amblyopia**Monocular deprivation; Visual cortex; Lateral geniculate nucleus; Visual development; Visual pathway (Christen, W.G.) **415**, 233**American sign language**Attention; Peripheral-central visual field; Event-related brain potential; Deafness; Motion perception; Hemispheric specialization; Development (Neville, H.J.) **405**, 284**Amiloride**Cytotoxic edema; Cytoplasmic pH; Cell swelling; Na⁺/H⁺ exchange; Glioma cell; Astrocyte (Jakubovicz, D.E.) **435**, 138**Amine accumulation**1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP); Dopamine; Motor function; Nigrostriatal degeneration (Willis, G.L.) **402**, 269Dopamine; Noradrenaline; Catecholamine; 6-Hydroxydopamine; Neurochemical specificity (Willis, G.L.) **403**, 15**Amine metabolism** β , β' -Iminodipropionitrile (IDPN); Neurofilament; Excitation, circling and choreiform head and neck movements (ECC) syndrome; Axonal enlargement; Neurotoxin (Morandi, A.) **437**, 69**Amino acid**Catfish; Facial nerve; Taste; Electrophysiology; Feeding (Kanwal, J.S.) **406**, 105Cultured hippocampal pyramidal cell; γ -Aminobutyric acid; Single chloride channel; Patch clamp recording; Single channel conductance (Allen, C.N.) **410**, 159*N*-Methylaspartate; Hippocampus; Purine catabolite; Excitotoxic lesion (Lehmann, A.) **411**, 95Taste; Transduction; Catfish (Brand, J.G.) **416**, 119Neurotransmitter candidate release; Hair cell; Trout saccule; HPLC (Drescher, M.J.) **417**, 39Cerebellum; Electrosensory lateral line lobe; Glutamate; Aspartate; γ -Aminobutyric acid; Taurine; Glycine (Nadi, S.) **425**, 218Aminobutyric acid; Glutamate; Mudpuppy; Retina; Retinal ganglion cell; Synaptic receptor (Arkin, M.S.) **426**, 142Hippocampus; Perforant path; Opioid peptide; Wet dog shake; Enkephalin; Dynorphin; γ -Aminobutyric acid (GABA) (Mitchell, C.L.) **435**, 343Glutamate; Mollusc; Feeding; Stress; Output; Modulation (Jones, P.G.) **437**, 56**Amino acid incorporation**Calcium overload; Neuroblastoma cell line; Energy metabolism; Calcium uptake; Protein synthesis (Abe, K.) **423**, 221**Aminobutyric acid**Amino acid; Glutamate; Mudpuppy; Retina; Retinal ganglion cell; Synaptic receptor (Arkin, M.S.) **426**, 142**Aminopyridine**Epilepsy; Neocortex; Bursting activity; Giant PSP (Szente, M.) **413**, 368**2-Amino-3-phosphonopropionic acid**[³H]Glutamate binding; Rat adrenal; Stereo- and structure-selectivity; *N*-methyl-D-aspartic acid; Kynurenic acid; Solubilization of binding site (Yoneda, Y.) **406**, 24**2-Amino-4-phosphonobutyrate**Hippocampal slice; 2-Amino-6-phosphono-hexanoate-glutamate; Quisqualate; α -Amino-3-hydroxy-5-methyl-4-isoxazolepropionate (AMPA); Excitatory amino acid; Uptake (Harris, E.W.) **418**, 361Binding site; Hippocampal lesion (Butcher, S.P.) **419**, 294**2-Amino-6-phosphono⁺hexanoate-glutamate**Hippocampal slice; 2-Amino-4-phosphonobutyrate; Quisqualate; α -Amino-3-hydroxy-5-methyl-4-isoxazolepropionate (AMPA); Excitatory amino acid; Uptake (Harris, E.W.) **418**, 361**2-Amino-7-phosphonoheptanoic acid (AP7)** β -*N*-Methylamino-L-alanine (BMAA); β -*N*-Oxalylamino-L-alanine (BOAA); *cis*-2,3-Piperidine dicarboxylic acid (PDA); Glutamate receptor antagonism; Organotypic tissue culture (Ross, S.M.) **425**, 120**4-Aminopyridine** γ -Aminobutyric acid (GABA); Hippocampus; Inhibition (Avoli, M.) **400**, 191Protein phosphorylation; Hippocampal slice; Epilepsy; Ca²⁺/calmodulin (De Graan, P.N.E.) **404**, 345Convulsant; Pentylentetrazole; Transient outward current; Nodose ganglion (Oyama, Y.) **409**, 243Hippocampal neuron; Inhibitory postsynaptic potential (Segal, M.) **414**, 285Sciatic; Saphenous; Denervation; γ -Aminobutyric acid (GABA); Glycine; Spinal cord; Sprouting(Markus, H.) **416**, 315Neurohypophysis; Oxytocin release; Potassium channel; Naloxone; Opioid; Tetraethylammonium ion (Racké, K.) **436**, 371**4-Aminopyridine (4-AP)**Spinal cord neuron; Cell culture; Phencyclidine (PCP); Tetraethylammonium (TEA); Potassium channel; Voltage clamp; Action potential (Aguayo, L.G.) **436**, 9**D-Amino-phosphonovaleric acid**Rat superior colliculus; Cultured neuron; Ionic current; Glutamate receptor; *N*-Methyl-D-aspartate; Quisqualate (Grantyn, R.) **420**, 182 **α -Amino-3-hydroxy-5-methyl-4-isoxazolepropionate (AMPA)**Hippocampal slice; 2-Amino-4-phosphonobutyrate; 2-Amino-6-phosphono-hexanoate-glutamate; Quisqualate; Excitatory amino acid; Uptake (Harris, E.W.) **418**, 361 **α -Amino-3-hydroxy-5-methyl-isoxazole-4-propionic acid (AMPA)**Quisqualate receptor; Retina; L-Glutamate receptor; Excitatory amino acid (López-Colomé, A.M.) **414**, 99**(RS)- α -amino-3-hydroxy-5-methyl-isoxazole-4-propionic acid (AMPA)**Glutamate; Quisqualate; Excitatory amino acid receptor (Olsen, R.W.) **402**, 243 **δ -Aminovalerate**Thalamus; Catalepsy; Baclofen; Muscimol; Bicuculline (Wüllner, U.) **422**, 129 **γ -Aminobutyric acid**Bicuculline; 3-Mercaptopropionic acid; Muscimol; Isoniazid; Hypothalamus; Sympathetic nervous system; Heart rate; Blood pressure (DiMicco, J.A.) **402**, 1Dopamine; Tyrosine hydroxylase; Glutamic acid decarboxylase; Coexistence; Olfactory bulb; Postnatal development; Immunohistochemistry (Kosaka, K.) **403**, 355Frog sensory neuron; Chloride current; Calcium current; Internal perfusion; Concentration-clamp technique (Inoue, M.) **404**, 301Cholecystokinin; Glutamate; Diazepam; Picrotoxin; Kynurenic acid (Yaksh, T.L.) **406**, 207Cholecystokinin; Caudatoputamen; Dopamine; Cerebral cortex; Acetylcholine; Leucine enkephalin (Gysling, K.) **407**, 110Retina; Monolayer culture; Reaggregate culture; Monoclonal antibody; Amacrine cell; Rat (Akagawa, K.) **408**, 154

- Retina; Enkephalin; Coexistence; Intracellular recording; On-Off ganglion cell; Larval tiger salamander (Watt, C.B.) **408**, 258
- Spinal cord; Intra-axonal staining; Immunocytochemistry; Primary afferent fiber; Presynaptic inhibition; Cat (Maxwell, D.J.) **408**, 308
- Nucleus of the optic tract; Inferior olive; Horseradish peroxidase; Tetramethylbenzidine; Monkey; Cat; Rat (Horn, A.K.E.) **409**, 133
- Hippocampus; Septum; Biotinylated wheat germ agglutinin; Immunocytochemistry (Shinoda, K.) **409**, 181
- Cultured hippocampal pyramidal cell; Single chloride channel; Patch clamp recording; Single channel conductance; Amino acid (Allen, C.N.) **410**, 159
- Inositol phospholipid; Norepinephrine; Hippocampal slice; Neurotransmitters' interaction; γ -Aminobutyric acid agonist (Corradetti, R.) **411**, 196
- Immunohistochemistry; Substantia nigra; Superior colliculus; Ventromedial nucleus; Neuronal hypertrophy; Axonal sprouting (Pearson, R.C.A.) **412**, 352
- Catecholamine; Coexistence; Plasticity; Immunohistochemistry; Olfactory bulb (Kosaka, T.) **413**, 197
- Auditory system; Bird; Bicuculline; Iontophoresis (Müller, C.M.) **414**, 376
- Cerebellar glomerulus; Glycine; Serotonin; Choline; Acetylcholine (Morales, E.) **420**, 11
- Hypothalamus; Defense reaction; Approach; Avoid; Aversive drive; Bicuculline; Muscimol (Shekhar, A.) **420**, 118
- Circling behavior; Honey bee; Acetylcholine; Muscimol; Picrotoxin; Flaxedil; Nicotine; Lesion (Michelsen, D.B.) **421**, 14
- Accumbens nucleus; Dopamine; Electron microscopy; Immunocytochemistry; Lateral septum; Rat (Onténiente, B.) **421**, 391
- Progesterone; Estrogen; Cerebellar Purkinje cell; Glutamate; Neuronal responsiveness; Neuromodulation; Anxiolytic (Smith, S.S.) **422**, 52
- Morphine; Presynaptic opiate receptor; Locus coeruleus; Purkinje cell; Norepinephrine; Inhibition (Moises, H.C.) **423**, 149
- Reticular formation; Nucleus reticularis gigantocellularis; Spinal cord; Motoneuron; Inhibitory postsynaptic potential (IPSP); Sleep; Glycine (Soja, P.J.) **423**, 353
- Aspartate; Dopamine; Acetylcholine; Retina; Visual pathway; Dark adaptation; Light adaptation (Chentanez, T.) **424**, 115
- Insular lobe; Immunocytochemistry; Baboon (Augustine, J.R.) **424**, 352
- Cerebellum; Electrosensory lateral line lobe; Amino acid; Glutamate; Aspartate; Taurine; Glycine (Nadi, S.) **425**, 218
- Opiate; Morphine; 4,5,6,7-Tetrahydroisoxazolo[5,4-c]pyridin 3-ol (THIP); Picrotoxin; Microinjection; Periaqueductal gray; Rat; Analgesia; Pain-inhibition (Depaulis, A.) **436**, 223
- γ -Aminobutyric acid (GABA)**
Olfactory bulb; Noradrenaline release; Presynaptic control; Rat (Gervais, R.) **400**, 151
- 4-Aminopyridine; Hippocampus; Inhibition (Avoli, M.) **400**, 191
- Progesterone; Sex steroid; Cerebellar Purkinje cell; Glutamate; Neuromodulation; Neuronal responsiveness; Anxiolytic action (Smith, S.S.) **400**, 353
- Benzodiazepine; Insect; Barbiturate; Locust; Neuron; Neuronal modulation (Lees, G.) **401**, 267
- Tissue culture; Corpus striatum; Tectum; Tegmentum; Striatonigral neuron; Immunocytochemistry; Synaptic interaction (Shalaby, I.A.) **402**, 68
- Chronic ethanol; Long Sleep mouse; Short Sleep mouse; Basket cell; Dentate fascia (Scheetz, A.J.) **403**, 151
- Supraoptic nucleus; Hypothalamus; Brain slice; Neurosecretion; Baclofen (Ogata, N.) **403**, 225
- Blood pressure; Nucleus tractus solitarius; Vasopressin; Neurotransmitter; Hypertension; Muscimol (Catelli, J.M.) **403**, 279
- Astrocyte; GABA_A-receptor; Chloride-channel; Neurotransmitter; Rat (Kettenmann, H.) **404**, 1
- Area postrema; Enkephalin; Guanethidine; Immunohistochemistry; Neurotensin; Neurotoxin; Rat; Serotonin (Newton, B.W.) **404**, 151
- Hippocampal slice; Spreading depression; Inhibitory postsynaptic potential (IPSP); Development; Pyramidal cell; Anoxia (Janigro, D.) **404**, 189
- Pregnenolone; γ -Aminobutyric acid receptor (Majewska, M.D.) **404**, 355
- S-100 protein; Nerve cell membrane; ³⁶Cl⁻ permeability (Hydén, H.) **404**, 405
- Lactotroph; Prolactin; Chloride channel; GABA_A receptor; Patch clamp (Inenaga, K.) **405**, 159
- Partial epilepsy; Premotor cortex; Striatum; Substantia nigra; Muscimol (Ono, K.) **405**, 183
- Movement detection; Behavior; Electrophysiology; Pharmacology; Picrotoxin; Fly; *Drosophila* (Bülthoff, H.) **407**, 152
- Valproic acid; Enkephalin; Pro-enkephalin-related peptide; Analgesia (Vion-Dury, J.) **408**, 243
- Calcitonin gene-related peptide; Coexistence; Purkinje cell; Immunocytochemistry; Rat (Kawai, Y.) **409**, 371
- Glutamic acid decarboxylase; Light microscopy; Glutamine synthetase; Electron microscopy; Area postrema; Immunocytochemistry; Cat (D'Amelio, F.E.) **410**, 232
- Peptide; Parvalbumin; Coexistence; Immunohistochemistry; Olfactory bulb (Kosaka, T.) **411**, 373
- Retina; Neurotransmitter; Immunocytochemistry; Autoradiography (Yazulla, S.) **411**, 400
- Dopamine; Apomorphine; Basal ganglion; Supersensitivity; Sham-fighting behavior (Sivam, S.P.) **412**, 29
- Olfactory bulb; Substance P; Glomerular cell layer; Electrophysiology; Slice (Olpe, H.R.) **412**, 269
- Aspartate; Immunohistochemistry; Vestibular nuclei; Guinea pig (Kumoi, K.) **416**, 22
- Sciatic; Saphenous; Denervation; 4-Aminopyridine; Glycine; Spinal cord; Sprouting (Markus, H.) **416**, 315
- Glycine; Strychnine; Dorsal cochlear nucleus (Caspary, D.M.) **417**, 273
- Immunoreactivity; Vestibular endorgan; Efferent system; Squirrel monkey (Usami, S.-I.) **417**, 367
- Rat; Septohippocampal pathway; Axonal terminal excitability; Antidromic stimulation; Microiontophoresis; Glutamate; Impulse flow; Autoreceptor (Dutar, P.) **418**, 98
- Vestibular end organ; Chick (Usami, S.-I.) **418**, 383
- Glutamic acid decarboxylase (GAD); Ca²⁺ binding protein; Parvalbumin; Local circuit neuron; Hippocampus; Dentate gyrus; Immunohistochemistry (Kosaka, T.) **419**, 119
- Retina; Rat; γ -Acetylenic GABA; γ -Vinyl GABA; Gabaculine (Cubells, J.F.) **419**, 208
- Glutamate decarboxylase; γ -Aminobutyric acid receptor binding; Kindling; Focal epilepsy (Löscher, W.) **420**, 385

Primary afferent depolarization;
Calcium; Divalent cation
(Curtis, D.R.) **422**, 192

Progabide; Glucose utilization;
[¹⁴C]2-Deoxyglucose technique;
Muscimol; Central serotonergic neuron
(Cudennec, A.) **423**, 162

GABA receptor; Substantia nigra;
Chronic haloperidol; Supersensitivity;
Microiontophoresis; Glycine
(Frey, J.M.) **425**, 73

Partial epilepsy; Premotor cortex;
Striatum; Glutamate; Acetylcholine
(Ono, K.) **435**, 84

Hippocampus; Dentate gyrus;
Recurrent collateral inhibition;
SKF-100330A; SKF-89976A;
 γ -Aminobutyric acid (GABA) uptake
blocker; γ -Aminobutyric acid
(GABA)-mediated inhibition;
Facilitation (Albertson, T.E.) **435**, 283

Hippocampus; Perforant path; Opioid
peptide; Amino acid; Wet dog shake;
Enkephalin; Dynorphin
(Mitchell, C.L.) **435**, 343

γ -Aminobutyric acid (GABA) receptor

GABA_A receptor blocker; Picrotoxin
(TBPS) receptor; Convulsant
(Squires, R.F.) **414**, 357

Glucocorticoid; *t*-[³⁵S]Butyl
bicyclopophosphorothionate (TBPS)
binding (Majewska, M.D.) **418**, 377

[³H]Muscimol; Mouse; Barrel field;
Autoradiography; Somatosensory
cortex (Chmielowska, J.) **425**, 283

γ -Aminobutyric acid (GABA) uptake

Synaptosome; Human; Frontal cortex
(Sidhu, H.S.) **435**, 334

γ -Aminobutyric acid (GABA) uptake blocker

Hippocampus; Dentate gyrus;
Recurrent collateral inhibition;
SKF-100330A; SKF-89976A;
 γ -Aminobutyric acid (GABA);
 γ -Aminobutyric acid
(GABA)-mediated inhibition;
Facilitation (Albertson, T.E.) **435**, 283

γ -Aminobutyric acid (GABA)-ergic subsensitivity

Chronic diazepam; Tolerance;
Bicuculline; Seizure threshold
(Gonsalves, S.F.) **405**, 94

γ -Aminobutyric acid (GABA)-mediated inhibition

Hippocampus; Dentate gyrus;
Recurrent collateral inhibition;
SKF-100330A; SKF-89976A;
 γ -Aminobutyric acid (GABA);
 γ -Aminobutyric acid (GABA) uptake
blocker; Facilitation (Albertson, T.E.)
435, 283

γ -Aminobutyric acid (GABA)ergic neuron

Fast spiking cell; Calcium-binding
protein; Parvalbumin; Non-pyramidal
cell; Hippocampus; Intracellular
injection of Lucifer yellow;
Immunohistochemistry
(Kawaguchi, Y.) **416**, 369

γ -Aminobutyric acid agonist

Inositol phospholipid; γ -Aminobutyric
acid; Norepinephrine; Hippocampal
slice; Neurotransmitters' interaction
(Corradetti, R.) **411**, 196

γ -Aminobutyric acid receptor

Pregnenolone; γ -Aminobutyric acid
(GABA) (Majewska, M.D.) **404**, 355

Chloride ion channel; ³⁶Cl⁻ flux;
Synaptoneurosomes; Stress; Rat brain
(Schwartz, R.D.) **411**, 151

Prednisolone; Sensitivity; Dorsal root
ganglion; Bullfrog (Ariyoshi, M.)
435, 241

γ -Aminobutyric acid receptor binding

γ -Aminobutyric acid (GABA);
Glutamate decarboxylase; Kindling;
Focal epilepsy (Löscher, W.) **420**, 385

γ -Aminobutyric acidergic system

Parvalbumin; Ca²⁺ binding protein;
Fast spiking neuron; Cholecystokinin;
Somatostatin; Local circuit neuron;
Cerebral cortex (Kosaka, T.) **409**, 403

Amitriptyline

Tumbling; Behavior mechanism;
Serotonin; Pigeon behavior
(Smith, G.N.) **400**, 399

Ammonia

Protein phosphorylation; Astrocyte
(Neary, J.T.) **437**, 161

Amphetamine

Dopamine release; Intracerebral
dialysis; Microdialysis; Stereotypy;
Locomotor activity; Striatum; Nucleus
accumbens (Sharp, T.) **401**, 322

Amygdala; Cholinergic agonist;
Cholinergic antagonist; Motor activity
(Gómez, M.N.) **404**, 304

Progesterone; Dopamine; Corpus
striatum; In vitro; Female rat
(Dluzen, D.E.) **406**, 1

Long-term treatment; Evoked
response; Long-term potentiation;
Hippocampus (Morimoto, K.) **407**, 137

Somatostatin; Neuropeptide Y;
Dopamine; Caudate nucleus; Push-pull
perfusion (Tatsuoka, Y.) **411**, 200

Locus coeruleus; Learning and
memory; Epinephrine; Catecholamine
(Holdefer, R.N.) **417**, 108

Unilateral cerebral drug administration;
Haloperidol; Pharmacokinetics;
Interhemispheric relationship
(Hyde, J.F.) **421**, 117

Rotation; 6-Hydroxydopamine;

Dopamine; Serotonin; Striatum;
Lateralization (Shapiro, R.M.) **426**, 323

Amphetamine rotation

M₁ and M₂ muscarinic receptors;
Dopamine; Acetylcholine (Hagan, J.J.)
410, 69

Amphibian

Rana pipiens; Antinociception;
Dynorphin; β -Endorphin;
Met-enkephalin (Stevens, C.W.)
402, 201

N-Acetylaspartylglutamate;
Immunohistochemistry; Neuropeptide;
Retina; Spinal sensory neuron
(Kowalski, M.M.) **406**, 397

Olfactory organ; Malformation;
Prosencephalon; Cyclopia
(Magrassi, L.) **412**, 386

Amphibian muscle

Cranial motoneuron; Localization;
Horseradish peroxidase; Prey-catching
behavior; Toad (Takei, K.) **410**, 395

Amplitude modulation

Auditory cortex; Time coding;
Periodicity analysis; Bird (Hose, B.)
422, 367

Amygdala

Kindling; Experimental epilepsy;
Noradrenaline; Dopamine; Serotonin
(Lewis, J.) **403**, 205

Kindled epilepsy; Learning; Nucleus
parafascicularis; Hypophysectomy;
Adrenocorticotrophic hormone (Rogers
III, O.L.) **403**, 96

Olfactory bulbectomy; Androgen
receptor binding; Hypothalamus;
Copulation (Lumia, A.R.) **404**, 121

Memory; Hippocampus; Timing;
Temporal memory (Olton, D.S.)
404, 180

Amphetamine; Cholinergic agonist;
Cholinergic antagonist; Motor activity
(Gómez, M.N.) **404**, 304

Gonadotropin releasing hormone;
Interpeduncular nucleus;
Immunohistochemistry; Retrograde
transport (Jennes, L.) **404**, 339

Conditioned taste aversion; Fetal
neural transplant; Grafting; Gustatory
neocortex (Bermúdez-Rattoni, F.)
416, 147

Brain nucleus; Dopamine; Turnover;
Limbic system; α -Methyltyrosine;
Norepinephrine (Kilts, C.D.) **416**, 402

Cardiovascular; Classical conditioning;
Emotion (Iwata, J.) **418**, 183

Receptor autoradiography;
Upregulation; μ Opioid receptor; δ
Opioid receptor; κ Opioid receptor;
Naloxone (Paden, C.M.) **418**, 349

Stria terminalis; Action potential;
Hypothalamus; Convergence
(Dalsass, M.) **425**, 346

Nerve agent; Soman;
O-ethyl-S-(2-diisopropyl-
aminoethyl)-methylphosphonothioate
(VX); Convulsion; Brain damage;
Neuropathology; Excitotoxic;
Microinjection (McDonough Jr., J.H.)
435, 123

Amygdala kindling

Evoked potential; Systemic penicillin
epilepsy; Ventral lateral thalamus;
Motor cortex; Cat; Sleep-wake cycle
(Shouse, M.N.) **425**, 198

Amygdala slice in vitro

[³H]Noradrenaline release;
[³H]Dopamine release; 4 β -Phorbol
12,13-dibutyrate; 4 α -Phorbol
12,13-didecanoate; Polymyxin B
(Versteeg, D.H.G.) **416**, 343

Amygdala/pyriform cortex

Kainic acid; Behavioral change;
Prostanoid formation; Rat
hippocampus; Parietal cortex
(Baran, H.) **404**, 107

Amygdaloid kindling

Glutamate; Aspartate (Mori, N.)
425, 45

Amygdaloid stimulation

Ponto-geniculo-occipital (PGO) activity
modulation; Paradoxical sleep
(Calvo, J.M.) **403**, 22

Analgesia

Single electroconvulsive shock (ECS);
Chronic electroconvulsive shock;
Dynorphin; β -Endorphin; Catalepsy
(Lasoñ, W.) **403**, 301

Rat habenula; Morphine; Naloxone;
Pain (Mahieux, G.) **406**, 118

Periaqueductal grey; Stimulation;
 β -Endorphin; Opioid; Prolactin; Stress
(Millan, M.J.) **407**, 199

Enkephalin; Dorsal horn; Peptidase
inhibitor; Kelatorphan
(Dickenson, A.H.) **408**, 185

Valproic acid; γ -Aminobutyric acid
(GABA); Enkephalin;
Pro-enkephalin-related peptide
(Vion-Dury, J.) **408**, 243

Activity; Stress; Stress-induced
analgesia; Calcium channel antagonist;
Diltiazem; Nifedipine; Verapamil; BAY
K 8644; Opioid analgesia
(Kavaliers, M.) **408**, 403

Pain; Pain modulation; Visceral pain;
Thalamus (Girardot, M.-N.) **409**, 19

Morphine; Tolerance; Dependence;
Cholecystokinin; Proglumide;
Benzotript (Panerai, A.E.) **410**, 52

Opioid receptor; Spinal cord; μ -Opioid;
 δ -Opioid; Nociception; Intrathecal
opioid; Rat dorsal horn; Enkephalin
(Dickenson, A.H.) **413**, 36

Arthritic rat; Morphine; Hyperalgesia
(Kayser, V.) **414**, 155

α -Agonist; Intrathecal administration;

Spinal cord; Rat dorsal horn; κ -Opioid
receptor; Antinociception; U50488H;
Ethylketocyclazocine; Dynorphin A₁₋₁₃
(Knox, R.J.) **415**, 21

Ro 15-1788; Benzodiazepine, Anxiety;
Antinociception; Rat (Morgan, M.M.)
415, 367

Calcium channel antagonist;
Phe-Met-Arg-Phe-NH₂ (FMRFamide);
Morphine; Stress; Stress-induced
analgesia; Immobilization; Naloxone;
Opioid analgesia (Kavaliers, M.)
415, 380

3 α -Hydroxy-5 α -pregnan-20-one
(3A5P); Steroid; Opiate; Calcium
channel antagonist; Benzodiazepine
(Kavaliers, M.) **415**, 393

Morphine; 60-Hz magnetic field;
Mouse; Power line frequency; Health
effect (Ossenkopp, K.-P.) **418**, 356

Neurotensin; Nucleus raphe magnus;
Pain; Microinjection; Brainstem
(Fang, F.G.) **420**, 171

Corticotropin releasing factor;
 β -Endorphin (Hargreaves, K.M.)
422, 154

N-Methyl-D-aspartate; Excitatory
amino acid; Spinal cord; Pain
(Raigorodsky, G.) **422**, 158

Morphine; Oxymorphone; Nalbuphine;
Cerebral glucose utilization; Opioid
receptor; Thalamus; Nucleus of the
spinal tract of the trigeminal nerve
(Fanelli, R.J.) **422**, 257

Aversion; Periaqueductal gray;
Diazepam; Electrical stimulation;
Tail-flick (Morgan, M.M.) **423**, 395

Stimulation-produced analgesia; Opioid
peptide; Naloxone; Nucleus tractus
solitarius; Pain; Pain-inhibition
(Lewis, J.W.) **424**, 65

Periaqueductal gray;
Stimulation-produced analgesia;
Tolerance; Pentobarbital; Rat
(Morgan, M.M.) **425**, 356

Pain; Tonic; Serotonin; Morphine;
Microinjection (Inase, M.) **426**, 205

Serotonin; Nociception; Raphe
nucleus; *p*-Chlorophenylalanine; Dorsal
spinal cord; Motoneuron;
Electrochemical detection
(Steinman, J.L.) **426**, 297

Opiate; Morphine; γ -Aminobutyric
acid; 4,5,6,7-Tetrahydro-
isoxazolo[5,4-c]pyridin 3-ol (THIP);
Picrotoxin; Microinjection;
Periaqueductal gray; Rat;
Pain-inhibition (Depaulis, A.) **436**, 223

Enkephalin; Raphe magnus; Reticular
formation; Retrograde tracer; Spinal
cord (Edwards, D.L.) **437**, 197

Analogue

Somatostatin; Vasopressin; Hemorrhage;
Sheep (Wang, X.) **436**, 199

Androgen

Developing spinal cord; Organotypic
culture; Testosterone metabolism;
Aromatase; 5 α -Reductase;
Neurotrophic factor (Hauser, K.F.)
406, 62

Spinal cord; Estrogen; Receptor;
5 α -Reductase (MacLusky, N.J.) **422**, 83

Spinal nucleus of the bulbocavernosus;
Genotype; House mouse; Castration;
Motoneuron; Strain difference
(Wee, B.E.F.) **424**, 305

Androgen metabolism

Sexual behavior; Dihydrotestosterone;
Japanese quail (Deviche, P.) **421**, 105

Androgen receptor

Guinea pig brain; Pituitary; Guinea pig
(Bonneau, M.) **413**, 104

Androgen receptor binding

Olfactory bulbectomy; Amygdala;
Hypothalamus; Copulation
(Lumia, A.R.) **404**, 121

Androgenization

Medial preoptic area; Ventral
noradrenergic tract; Luteinizing
hormone; Testosterone; Naloxone;
Sexual differentiation; Rat
(Grossmann, R.) **415**, 205

Anesthesia

Neurotensin; Neuropeptide;
 β -Endorphin; Ethanol; Hypothermia;
Selectively bred mouse (Erwin, V.G.)
400, 80

Auditory brainstem response (ABR);
Brainstem auditory evoked potential
(BAEP); Mouse; Pentobarbital
(Church, M.W.) **403**, 72

Aldehyde dehydrogenase; Barbiturate;
Disulfiram; Hexobarbital;
Noradrenaline; Serotonin;
Sleeping-time (Nilsson, G.E.) **409**, 265

CSF hormone; Arginine vasopressin
(AVP); Angiotensin II (A II);
Cerebrospinal fluid (CSF); Conscious
animal; Hormone transport into CSF
(Simon-Oppermann, C.) **424**, 163

Anesthetic

Halothane; Motoneuron; Excitatory
postsynaptic potential (EPSP);
Inhibitory postsynaptic potential
(IPSP); Spinal cord (Takenoshita, M.)
402, 303

Anoxic damage; Thiopental;
Isoflurane; Hippocampus; Brain slice;
Anoxia (Bendo, A.A.) **403**, 136

Brain injury; Brain ischemia;
Pentobarbital; Ketamine; Survival rate
(Shimoji, K.) **408**, 385

Anesthetized cat

Prostaglandin E₂; Prostaglandin F_{2 α} ;
Intracerebroventricular; Sympathetic
nervous system; Pressor; Tachycardia
(Rao, T.S.) **435**, 7

Anesthetized rat

Caudate-putamen; Bursting activity; Scrotal skin temperature; Temperature information (Taylor, D.C.M.) **419**, 352

Cortically projecting basal forebrain cell; Pallidal cell; Neuronal firing; Electroencephalogram; Cortical activation; Acetylcholinergic system (Détári, L.) **437**, 1

Angioarchitectonics

Dolphin brain; Blood-brain barrier; Glia; Tight junction; Gap junction; Brain capillary; Gliarchitectonics; Glia-glial junction; Astroglia-like cell (Glezer, I.I.) **414**, 205

Angiography

Delayed vasospasm; Cerebral blood flow (CBF); Cerebral metabolic rate of oxygen (CMRO₂); Carbon dioxide reactivity; Autoregulation; Calcium antagonist (Sahlin, C.) **403**, 313

Angiotensin

Drinking; Dopamine; Minipig (Thornton, S.N.) **410**, 401

Bradykinin; Electrophysiology; Glioma cell; Desensitization (Höpp, H.-P.) **412**, 175

Angiotensin II

Receptor autoradiography; Hypothalamus; Subfornical organ; Salt gland; Receptor up-regulation; Pekin duck (Gerstberger, R.) **400**, 165

Supraoptic nucleus; Subfornical organ; Anteroventral third ventricle; Brain slice (Okuya, S.) **402**, 58

Norepinephrine; Anteroventral third cerebral ventricle (AV3V); Catecholamine; Dopamine; Drinking; Blood pressure; 6-Hydroxydopamine (Bellin, S.I.) **403**, 105

Synaptosome; Catecholamine; Release (Bottiglieri, D.F.) **403**, 167

Circumventricular organ; AV3V area; Quantitative autoradiography; Paraventricular nucleus; Neuropeptide binding site (Plunkett, L.M.) **405**, 205

Respiratory neurone; Nucleus of the tractus solitarius; Brainstem; Sensory physiology; Respiration (Sessle, B.J.) **407**, 163

Zona incerta; Subfornical organ; Medial preoptic area; Osmoreceptor; Thirst; Extracellular single-unit recording (Mok, D.) **407**, 332

Angiotensin III; Brain; Electrophysiology; Iontophoresis; Spontaneously hypertensive rat (Harding, J.W.) **410**, 130

Angiotensinogen; Brain; Astrocyte; Neuron; Choroid plexus; Immunohistochemistry; Rat (Imboden, H.) **410**, 74

Drinking; Blood pressure; Catecholamine; Angiotensin-induced

thirst; Pressor response (Bellin, S.I.) **416**, 75

Intracerebroventricular; NaCl; Body fluid balance; Operant behavior; Drinking behavior (Weisinger, R.S.) **420**, 135

Angiotensin III; Blood pressure; Drinking; Spontaneously hypertensive rat (Wright, J.W.) **420**, 289

Angiotensin III; Brain; Iontophoresis; Amastatin; Bestatin; Sar¹-angiotensin II (Harding, J.W.) **424**, 299

Angiotensin III; Rat brain; Immunohistochemistry; Affinity purification (Imboden, H.) **426**, 225

Angiotensin II (A II)

Anesthesia; CSF hormone; Arginine vasopressin (AVP); Cerebrospinal fluid (CSF); Conscious animal; Hormone transport into CSF (Simon-Oppermann, C.) **424**, 163

Angiotensin II binding

Human brain; Lamina terminalis; Receptor; Diencephalon (McKinley, M.J.) **420**, 375

Angiotensin III

Angiotensin II; Brain; Electrophysiology; Iontophoresis; Spontaneously hypertensive rat (Harding, J.W.) **410**, 130

Angiotensin II; Blood pressure; Drinking; Spontaneously hypertensive rat (Wright, J.W.) **420**, 289

Angiotensin II; Brain; Iontophoresis; Amastatin; Bestatin; Sar¹-angiotensin II (Harding, J.W.) **424**, 299

Angiotensin II; Rat brain; Immunohistochemistry; Affinity purification (Imboden, H.) **426**, 225

Angiotensin-induced thirst

Drinking; Blood pressure; Angiotensin II; Catecholamine; Pressor response (Bellin, S.I.) **416**, 75

Angiotensinogen

Angiotensin II; Brain; Astrocyte; Neuron; Choroid plexus; Immunohistochemistry; Rat (Imboden, H.) **410**, 74

¹²⁵I-Angiotensin II binding

Monosodium glutamate; Brain; Rat; Circumventricular organ (Rogulja, I.) **419**, 333

Angular acceleration

Vestibulo-ocular reflex; Optokinetic reflex; Semicircular canal; Otolith; Rabbit; Linear acceleration; Eye movement (Barmack, N.H.) **424**, 89

Animal model for dementia

Basal forebrain; Medial septal nucleus; Cholinergic system; Passive avoidance task; Morris water task; Radial maze task; Learning and memory (Miyamoto, M.) **419**, 19

Anion transport carrier

[³H]Glutamate binding; Ca²⁺ion; Cl⁻-dependent binding; Cl⁻-dependent and Ca²⁺-stimulated binding; D-Aspartate; Quisqualic acid; Protease inhibitor (Yoneda, Y.) **400**, 70

Aniracetam

Oxiracetam; Piracetam; Pramiracetam; Passive avoidance; Adrenalectomy; Peripheral mechanism; Nootropics (Mondadori, C.) **435**, 310

Anisomycin

Circadian rhythm; Protein synthesis; Phase response curve; Oscillator; Hamster (Takahashi, J.S.) **405**, 199

Anodal and cathodal lesion

A₁ neuron; Clonidine; Methyldopa; 6-Hydroxydopamine; Rabbit (Head, G.A.) **412**, 18

Anodal current

Taste; Rat; Chorda tympani nerve; Single fiber; Ion specificity; Ionic taste stimulus (Ninomiya, Y.) **404**, 350

Anomalous rectification

Inward rectification; Locus coeruleus; Brain slice (Osmanović, S.S.) **417**, 161

Anomeric specificity

Brain cell; Glucose metabolism (Malaisse, W.J.) **419**, 147

Anoxia

Glutamate release; Veratridine- and potassium-induced release; Calcium dependence of release; Tetrodotoxin; Hypoxia; Rat; Development of release (Minc-Golomb, D.) **402**, 255

Anoxic damage; Anesthetic; Thiopental; Isoflurane; Hippocampus; Brain slice (Bendo, A.A.) **403**, 136

Hippocampal slice; Spreading depression; Inhibitory postsynaptic potential (IPSP); γ -Aminobutyric acid (GABA); Development; Pyramidal cell (Janigro, D.) **404**, 189

Molecular probe; Spreading depression; Seizure activity; Mitochondrion; Bicuculline; Picrotoxin (Evans, D.) **409**, 350

Hippocampal slice; Postsynaptic potential; Hypothermia; Energy metabolism (Tanimoto, M.) **417**, 239

Potassium ion; Electrophysiology; Hippocampal slice (Sick, T.J.) **418**, 227

Hypoxia; Cell culture; Astrocyte; Neuron-specific enolase; Glutamate; γ -D-Glutamylglycine (Vibulstret, S.) **422**, 303

Anoxic damage

Anesthetic; Thiopental; Isoflurane; Hippocampus; Brain slice; Anoxia (Bendo, A.A.) **403**, 136

Anoxic depolarization

Spreading depression; Ketamine; Slow

potential; Rat (Hernández-Cáceres, J.) **437**, 360

Antagonist

N-Acetylaspartylglutamate; Aspartate; Glutamate; Cultured neuron; Chick cerebellum; Intracellular recording (Mori-Okamoto, J.) **401**, 60

Cholecystokinin; Benzotript; Proglumide; Hippocampal slice (Jaffe, D.B.) **415**, 197

Antagonist coactivation

Stretch reflex; Adaptation; Catching; Anticipation (Lacquaniti, F.) **406**, 373

Anterior byssus retractor muscle (ABRM)

Peptide; Pedal ganglion; *Mytilus*; Catch tension; Relaxation; Inhibition (Hirata, T.) **422**, 374

Anterior cingulate cortex

Posterior cingulate cortex; Learning and memory; Hippocampus; Unit activity; Lesion (Gabriel, M.) **409**, 151

β -Adrenergic receptor; Neostriatum; Synaptosome; Somatosensory cortex; Postsynaptic density; Membrane recycling (Aoki, C.) **437**, 264

Anterior commissure

Corpus callosum; Acallosal brain; Probst's bundle; Callosal development; Hippocampal commissure; DdN Strain mouse (Ozaki, H.S.) **400**, 239

Anterior ectosylvian sulcus

Eye movement; Monocular movement; Frontal eye field; Oculomotor area; Coronal sulcus; Cat (Nakai, M.) **414**, 91

Anterior hypothalamus

Affective defense behavior; Ventromedial hypothalamus; Intracerebral injection; Noradrenaline; Yohimbine (Barrett, J.A.) **426**, 381

Anterior pituitary

Prolactin; Brain; Radioimmunoassay; Bioassay; Gel filtration chromatography; Hypophysectomy; Restraint stress (Emanuele, N.V.) **421**, 255

Anterior region of the third cerebral ventricle (AV3V)

Drinking; Water deprivation; Organum vasculosum lamina terminalis (OVLT); Sodium excretion (Thornton, S.N.) **437**, 339

Anterior tongue

Nucleus of the solitary tract; Convergence; Gustatory; Posterior oral cavity; Hamster; Breadth of responsiveness (Sweazey, R.D.) **408**, 173

Anterograde degeneration

Human brain; Cholesterol ester crystal; Degenerated myelin; Polarizing microscopy; Macrophage; Tract tracing (Miklossy, J.) **426**, 377

Horseradish peroxidase; Wheat germ agglutinin; Electron microscopy; Substantia nigra; Superior colliculus;

Spinal cord; Cat (Tokuno, H.) **436**, 76

Anterograde labeling

Spinal trigeminal nucleus, pars interpolaris; Horseradish peroxidase; Axon terminal in XII nucleus; Retrograde labeling; Hypoglossal motoneuron (Borke, R.C.) **422**, 235

Anterograde neuroanatomical tracing

Ventrolateral medulla; Locus coeruleus; Adrenergic neuron (Guyenet, P.G.) **406**, 171

Anterograde tracing

Magnocellular basal nucleus; Cortical projection; Horizontal diagonal band; *Phaseolus vulgaris* leucoagglutinin (Luiten, P.G.M.) **413**, 229

Anterograde transport

Collateral sprouting; Sensory axon; Hairy skin; Dermotome; Spinal nerve lesion; Wheat germ agglutinin-horseradish peroxidase conjugate; Microinjection (Kinnman, E.) **414**, 385

Anteromedial cortex

Electrical stimulation; Circling; Head turn; Body curvature; Refractory period; Summation; Medial pons (Tehovnik, E.J.) **407**, 240

Anteromedian nucleus

Choline acetyltransferase; Edinger-Westphal nucleus; Oculomotor nucleus; Ciliary ganglion; Immunocytochemistry; Retrograde transport; Double labelling (Strassman, A.) **423**, 293

Anteroventral third cerebral ventricle (AV3V)

Norepinephrine; Catecholamine; Dopamine; Angiotensin II; Drinking; Blood pressure; 6-Hydroxydopamine (Bellin, S.I.) **403**, 105

Anteroventral third ventricle

Angiotensin II; Supraoptic nucleus; Subfornical organ; Brain slice (Okuya, S.) **402**, 58

Anthracycline antibiotic

Axonal transport; Doxorubicin; Dorsal root ganglion; Motoneuron; Peripheral nervous system (Borges, L.F.) **426**, 367

Anti-idiotypic antibody

Substance P; Substance P antibody; Substance P receptor (Svenberg, M.-L.) **417**, 131

Thy-1; Glycoprotein (French, P.W.) **420**, 324

Anti-organelle antibody

Neuronal Golgi; Astrocytic Golgi (Stieber, A.) **408**, 13

Anti-oxidant

Motor nerve; Neuromuscular transmission; Degeneration; Lipid peroxidation (Hall, E.D.) **413**, 175

Anti-vasopressin serum

Passive avoidance behavior; Noradrenaline utilization; Hippocampus, dorsal; Hippocampus, ventral; Septum, dorsolateral; Caudate nucleus (Veldhuis, H.D.) **425**, 167

Antianxiety action

Central amygdala; Mammillary body; Benzodiazepine; Conflict behavior; Rat (Kataoka, Y.) **416**, 243

Antibody

Neuropeptide; Small cardioactive peptide SCP_B; FMRFamide; Stomatogastric nervous system; Crustacean (Callaway, J.C.) **405**, 295

Serotonin; Formaldehyde; *Octopus vulgaris* brain; Chromatophore lobe; Palliovisceral lobe; Peroxidase-antiperoxidase (PAP) method (Uemura, T.) **406**, 73

DL-5-Hydroxytryptophan; Glutaraldehyde; Enzyme-linked immunosorbent assay; Raphe nucleus; Immunocytochemistry (Geffard, M.) **426**, 191

Antibody to nerve growth factor

Nerve growth factor; Axonal sprouting; Unmyelinated axon (Hulsebosch, C.E.) **411**, 267

Anticipation

Stretch reflex; Adaptation; Catching; Antagonist coactivation (Lacquaniti, F.) **406**, 373

Anticonvulsant

Carbamazepine; Epilepsy; Afterdischarge; Hippocampus (Smith, K.L.) **400**, 371

Pituitary; Adrenal; Endogenous opioid; Maximal electroshock seizure (Long, J.B.) **402**, 155

Calcium; Calcium channel; Calcium channel agonist; Calcium channel inhibitor; Seizure (Shelton, R.C.) **402**, 399

Seizure; Epilepsy; Interictal; Baclofen; Inhibition; Magnesium (Swartzwelder, H.S.) **410**, 362

Zonisamide; Sodium current; Axon; Inactivation (Schauf, C.L.) **413**, 185

Valproic acid; Cerebrospinal fluid; Biogenic amine metabolite; Lactic acid; Organic acid transport (MacMillan, V.) **420**, 268

Benzodiazepine; Clonazepam; Substantia nigra; Kindling; Seizure (King, P.H.) **423**, 261

Hippocampus; Inhibitory postsynaptic potential; Valproate (Preisendorfer, U.) **435**, 213

MK-801; Phencyclidine (PCP)/ σ -receptor; Haloperidol-sensitive non-PCP/ σ -binding site; [³H]TCP binding; (+)-[³H]SKF 10,047 competition; *N*-Methyl-D-aspartate

(NMDA)-stimulated
[³H]norepinephrine release (Sircar, R.)
435, 235

Anticonvulsant activity

Benzodiazepine antagonist; Ro
15-1788; Diazepam; Benzodiazepine
receptor; Epileptic chicken
(Pedder, S.C.J.) **424, 139**

Antidepressant

Thyrotropin-releasing hormone (TRH);
Wet-dog shakes; Desipramine;
Nialamide (Sills, M.A.) **401, 195**

α_2 -Adrenoceptor; CAMP (Nomura, S.)
410, 195

Antidepressant drug

5-HT₂ receptor; Head shaking
behavior; Serotonin (Lucki, I.)
420, 403

Hippocampus; Cerebral cortex;
Noradrenergic innervation;
6-Hydroxydopamine; Learned
helplessness; Escape failure; Rat
(Soubrie, P.) **437, 323**

Antidromic

Substantia nigra, pars compacta;
Paraventricular nucleus; Axon
branching; Pituitary stalk; Latency
jump (Klemfuss, H.) **409, 197**

Motor cortex; Cortical development;
Corticospinal; Intracortical
microstimulation (ICMS) (Porter, L.L.)
436, 136

Antidromic activation

Dopaminergic neuron; Medial
forebrain bundle; Neostriatum; In vivo
voltammetry; Unit activity
(Kuhre, W.G.) **418, 122**

Locus coeruleus; Ventrolateral
medulla; Norepinephrine; Nucleus
paragigantocellularis (Ennis, M.)
425, 275

Antidromic mapping

Respiratory neuron; Nucleus tractus
solitarius; Descending pathway
(Jiang, C.) **413, 189**

Antidromic stimulation

Expiratory neuron; Nucleus
retroambiguus; Intracellular
recording; Postsynaptic potential;
Horseradish peroxidase; Axon
collateral (Arita, H.) **401, 258**

Rat; Septohippocampal pathway;
Axonal terminal excitability;
Microiontophoresis; γ -Aminobutyric
acid (GABA); Glutamate; Impulse
flow; Autoreceptor (Dutar, P.) **418, 98**

Respiration; Medullary respiratory
neuron; Phrenic nerve; Nucleus of the
solitary tract; Cross-correlation; Rat
(Saether, K.) **419, 87**

Antinociception

Amphibian; *Rana pipiens*; Dynorphin;
 β -Endorphin; Met-enkephalin
(Stevens, C.W.) **402, 201**

Rat; Spinal cord; Morphine; Clonidine;
Potentiation; Sensory system; Motor
system (Wilcox, G.L.) **405, 84**

Nucleus raphe magnus;
Norepinephrine; Serotonin; Spinal
cord; Superfusion; Neurotransmitter
release (Sagen, J.) **406, 246**

Substantia nigra; Morphine; Opioid
peptide (Baumeister, A.A.) **411, 183**

κ -Agonist; Intrathecal administration;
Spinal cord; Rat dorsal horn; κ -Opioid
receptor; Analgesia; U50488H;
Ethylketocyclazocine; Dynorphin A₁₋₁₃
(Knox, R.J.) **415, 21**

Ro 15-1788; Analgesia;
Benzodiazepine, Anxiety; Rat
(Morgan, M.M.) **415, 367**

Morphine; Naloxone; Naltrexone;
Opioid receptor; Upregulation
(Stevens, C.W.) **425, 388**

Antipsychotic drug

Thioridazine; Dopamine release;
Striatum; Nucleus accumbens;
Dopamine cell firing (Lane, R.F.)
408, 317

Schizophrenia; Dopamine; Dopamine
neuron; Ventral tegmental area;
Substantia nigra (Hand, T.H.) **415, 257**

Anxiolytic

Progesterone; Estrogen; Cerebellar
Purkinje cell; γ -Aminobutyric acid;
Glutamate; Neuronal responsiveness;
Neuromodulation (Smith, S.S.) **422, 52**

Anxiolytic action

Progesterone; Sex steroid; Cerebellar
Purkinje cell; γ -Aminobutyric acid
(GABA); Glutamate;
Neuromodulation; Neuronal
responsiveness (Smith, S.S.) **400, 353**

Aortic endothelial culture

Brain endothelial cell; Monolayer
culture; Electrical resistance;
Epididymal endothelial culture;
Permeability (Rutten, M.J.) **425, 301**

Aortic nerve

Sympathetic preganglionic neuron;
Respiration; Phrenic nerve; Central
respiratory drive; Rat (Numao, Y.)
401, 190

Apamin

Cultured astrocyte; Glial cell;
Photoaffinity labeling; Potassium
channel; Receptor subunit
(Seagar, M.J.) **411, 226**

Apical microvillus

Rat; Plasma hyperkalemia; Choroid
plexus; Quantitative stereology;
Mitochondrion; Cerebrospinal fluid
secretion; Cerebrospinal fluid
potassium (Keep, R.F.) **413, 45**

Aplysia californica

Circadian rhythm; Pacemaker coupling;
Bulla gouldiana; *Bursatella leachi* plei;
Mollusc (Roberts, M.H.) **423, 286**

Aplysia

Neuron; Monoamine; Fluorescent
histochemistry;
Microspectrofluorimetry
(Salimova, N.B.) **400, 285**

Axonal transport; Retrograde; Lipid
droplet (Savage, M.J.) **406, 215**

Potassium channel; Modulation;
Serotonin; Sensory neuron
(Pollock, J.D.) **410, 367**

Serotonin; Intracellular voltammetry;
Metacerebral cell; Platinum electrode
(Meulemans, A.) **414, 158**

5-Hydroxytryptamine;
5,7-Dihydroxytryptamine; In vivo
labeling; 5-Hydroxytryptamine neuron
(Jahan-Parwar, B.) **426, 173**

Aplysia neuron

Ion current; Pentylentetrazol
(Hartung, K.) **419, 55**

Apodemos

Hippocampus; Asymmetry; Subiculum;
Timm's stain (Slomianka, L.) **436, 69**

Apolipoprotein E

Astrocyte; Interferon- γ ;
Lipopolysaccharide (Oropeza, R.L.)
410, 45

Apomorphine

Prolactin; Sulpiride; Dopamine;
Adrenal gland; Sodium (Collu, R.)
401, 23

Clonidine; Isoproterenol; Thyrotropin
secretion; Yohimbine; Propranolol;
Phentolamine; Sulpiride (Jaffer, A.)
404, 267

Stereotyped behavior; Neurotensin;
Cholecystokinin; Dopamine; Nucleus
accumbens (Blumstein, L.K.) **404, 293**

Dopamine; Electrophysiology;
Cholecystokinin; Freely moving rat;
Midbrain (Freeman, A.S.) **405, 46**

Striatum; Caudate nucleus; Basal
ganglia; [¹⁴C]Deoxyglucose; Glucose
utilization; Dopamine (Brown, L.L.)
411, 65

Dopamine; γ -Aminobutyric acid
(GABA); Basal ganglion;
Supersensitivity; Sham-fighting
behavior (Sivam, S.P.) **412, 29**

Locomotor activity; Dopamine;
Nucleus accumbens; Ventral pallidum;
Dorsomedial nucleus of the thalamus;
Medial prefrontal cortex;
Pedunculopontine nucleus; Picrotoxin;
Behavior (Swerdlow, N.R.) **412, 233**

Dopamine agonist; Yawning; Penile
erection; Paraventricular nucleus
(Melis, M.R.) **415, 98**

Circling behavior; Colchicine; Striatum;
Methamphetamine; Degenerative
atrophy (Kamata, K.) **421, 353**

2-Deoxyglucose; Striatal lesion;
Muscimol (Kelly, P.A.T.) **425, 290**

[³H]Dopamine release; In vitro release; Nucleus accumbens; D₂ receptor; Deskenphalin- γ -endorphin; Dopamine agonist; Dopamine antagonist (Radhakishun, F.S.) **426**, 235

Area postrema; Cholecystokinin; Lithium chloride; Oxytocin; Arginine vasopressin (Carter, D.A.) **435**, 327

Appearance

C₆ cell; Opioid receptor; β -Receptor; Down-regulation (Reggiani, A.) **423**, 254

Approach

γ -Aminobutyric acid; Hypothalamus; Defense reaction; Avoid; Aversive drive; Bicuculline; Muscimol (Shekhar, A.) **420**, 118

Arachidonate

Sodium pump; Na⁺, K⁺-ATPase; Brain microsome; Mouse diaphragm (Vyskočil, F.) **436**, 85

Arachidonic acid metabolism

Melatonin; 5-Methoxytryptamine; Methoxyindole; Prostaglandin; Thromboxane; Medial basal hypothalamus; Pineal gland (Franchi, A.M.) **405**, 384

Phorbol diester

12-*O*-tetradecanoyl-phorbol-13-acetate; Protein kinase C; Astrocyte; Prostaglandin E; Immune response; Inflammation (Hartung, H.-P.) **417**, 347

Arcuate nucleus

Estradiol; Hippocampus;

Hypothalamus; Globus pallidus; Astrocyte; Glial fibrillary acidic protein; Immunohistochemistry (Tranque, P.A.) **406**, 348

Neurotensin; Immunohistochemistry; Median eminence; Hypothalamic lesion (Kiss, A.) **416**, 129

Growth hormone-releasing factor (GRF); Immunohistochemistry; Paraventricular nucleus; Monoclonal antibody; Rat (Bruhn, T.O.) **424**, 290

Estradiol; Hypothalamus; Plasma membrane; Neuronal membrane; Synapse; Freeze-fracture; Sex-difference (Olmos, G.) **425**, 57

Arcuate nucleus stimulation

Tuberoinfundibular dopamine neuron; Median eminence; γ -Butyrolactone; 3,4-Dihydrophenylacetic acid; Prolactin (Lookingland, K.J.) **436**, 161

Arcuate premotor area

Corticospinal tract; Premotor area; Spinal cord (Martino, A.M.) **404**, 307

Area 18

Cat neocortex; Single neuron; Diffuse receptive field (Albus, K.) **410**, 199

Area 19DM

Striate cortex; Prestriate cortex;

Heterotopic interhemispheric connection; Primate (Spatz, W.B.) **403**, 158

Area 7b (PF)

Cortex; Cortico-cortical connection (Neal, J.W.) **419**, 341

Area dentata

Hippocampus; Perforant path; Active avoidance; Post-tetanic long-term potentiation (LTP); Post-conditioning long-term potentiation (LTP); Glycoprotein; Fucose; Memory formation (Pohle, W.) **410**, 245

Area octavolateralis

Horseradish peroxidase; In vitro; Lateral lemniscus; Lateral line; Urodele amphibian (Gonzalez, A.) **423**, 338

Area postrema

Enkephalin; γ -Aminobutyric acid (GABA); Guanethidine; Immunohistochemistry; Neurotensin; Neurotoxin; Rat; Serotonin (Newton, B.W.) **404**, 151

Glutamic acid decarboxylase; Light microscopy; Glutamine synthetase; Electron microscopy; γ -Aminobutyric acid (GABA); Immunocytochemistry; Cat (D'Amelio, F.E.) **410**, 232

Noradrenaline; Parabrachial area; Serotonin; Tyrosine hydroxylase (Miceli, M.O.) **412**, 381

Nucleus tractus solitarii; Blood pressure; Heart rate; Dorsal motor nucleus of the vagus (Averill, D.B.) **414**, 294

Neuropeptide Y (NPY); Receptor; Autoradiography; SHR; Blood pressure (Nakajima, T.) **417**, 360

Noradrenergic neuron; Sympathoexcitatory neuron; Sympathoinhibitory neuron; Fluoro-Gold; Tyrosine hydroxylase immunohistochemistry (Blessing, W.W.) **419**, 336

Cholecystokinin; Apomorphine; Lithium chloride; Oxytocin; Arginine-vasopressin (Carter, D.A.) **435**, 327

Arginine

Proline; Ornithine; Formoguanamine (2,4-diamino-S-triazine); Brain; Retina; Ornithine- δ -aminotransferase; Δ^1 -Pyrroline-5- α -carboxylate reductase (Matsuzawa, T.) **413**, 314

Arginine vasopressin

Calcium gluconate; Hypothalamus; Vasopressinergic neuron; Catecholamine; Blood pressure (Benetos, A.) **412**, 182

Fever; Vasopressin; Indomethacin; Set point; Thermoregulation (Wilkinson, M.F.) **415**, 275

Hippocampus; Hippocampal slice; Neuropeptide; Arginine vasopressin

receptor; Arginine vasopressin antagonist (Burnard, D.M.) **422**, 11

Arginine vasopressin (AVP)

Anesthesia; CSF hormone; Angiotensin II (A II); Cerebrospinal fluid (CSF); Conscious animal; Hormone transport into CSF (Simon-Oppermann, C.) **424**, 163

Arginine vasopressin antagonist

Arginine vasopressin; Hippocampus; Hippocampal slice; Neuropeptide; Arginine vasopressin receptor (Burnard, D.M.) **422**, 11

Arginine vasopressin receptor

Arginine vasopressin; Hippocampus; Hippocampal slice; Neuropeptide; Arginine vasopressin antagonist (Burnard, D.M.) **422**, 11

Arginine-8-vasopressin

β -Endorphin₂₋₉; Oxytocin; Brain area (Laczi, F.) **403**, 155

Arginine-vasopressin

Oxytocin; Noradrenaline; Ventral noradrenergic bundle; Stress; Sexual dimorphism (Carter, D.A.) **406**, 313

Area postrema; Cholecystokinin; Apomorphine; Lithium chloride; Oxytocin (Carter, D.A.) **435**, 327

Arm movement

Climbing fiber; Purkinje cell; Cerebellar cortex; Primate; Motor behavior (Wang, J.-J.) **410**, 323

Premotor cortex; Supplementary motor cortex; Motor control (Rea, G.L.) **418**, 58

Aromatase

Androgen; Developing spinal cord; Organotypic culture; Testosterone metabolism; 5 α -Reductase; Neurotrophic factor (Hauser, K.F.) **406**, 62

Testosterone; 5 α -Reductase; 5 β -Reductase; Hypothalamus; Limbic system; Quail (Schumacher, M.) **422**, 137

Aromatic-L-amino acid

Decarboxylation; Glial cell (Juorio, A.V.) **426**, 183

Arousal state

Suprachiasmatic nucleus; Hypothalamus; Unit activity (Glötzbach, S.F.) **419**, 279

Arterial chemoreceptor

Spike train analysis; Dopamine (Donnelly, D.F.) **407**, 195

Arterial pressure

Stimulation-produced antinociception; Vascular resistance; Heart rate; Lateral reticular nucleus; Glutamate microinjection (Janss, A.J.) **405**, 140

Blood volume; Body weight; Brainstem; Dorsal rostral pons; Locus coeruleus (Ward, D.G.) **423**, 373

Regulation of respiration; Ventral

medulla; Glutamate; Phrenic nerve; Cat (Lawing, W.L.) **435**, 322

Arthritic rat

Bidirectional effect of naloxone; Cross-tolerance; Morphine; Naloxone (Kayser, V.) **405**, 123

Morphine; Analgesia; Hyperalgesia (Kayser, V.) **414**, 155

Arthritis

β -Endorphin; Dynorphin; Opioid; Opioid receptor; Pain; Periaqueductal grey (Millan, M.J.) **416**, 349

Arylsulfatase

Kainic acid; Neuron; Astrocyte; Rat striatum (Kung, M.-P.) **419**, 141

Arylsulfatase C

Estrone-sulfate sulfatase; Pineal gland; Choroid plexus; Hypophysis; Median eminence; Histochemistry (Kawano, J.-I.) **409**, 391

Ascorbic acid

Dopamine; Methamphetamine; Serotonin; Substance P (Matsuda, L.A.) **400**, 176

Lys⁸-Asn⁹-Neurotensin(8–13)

Neuromedin N; Basal ganglion; Globus pallidus; Striatum; Monkey; Immunohistochemistry (Reiner, A.) **422**, 186

Aspartate

Glutamate; Neurotransmitter; Pulvinar; Visual cortex; Rat (Fosse, V.M.) **400**, 219

N-Acetylaspartylglutamate; Glutamate; Cultured neuron; Chick cerebellum; Antagonist; Intracellular recording (Mori-Okamoto, J.) **401**, 60

Excitatory amino acid; Binding site; Glutamate; Cysteine sulfinate (Pin, J.-P.) **402**, 11

Cerebellar neuron; Patch-clamp; Glutamate (Cull-Candy, S.G.) **402**, 182

Glutamate; Immunohistochemistry; Nerve terminal pool; Rat limbic system (Yoshida, M.) **410**, 169

γ -Aminobutyric acid (GABA); Immunohistochemistry; Vestibular nuclei; Guinea pig (Kumoi, K.) **416**, 22

Dopamine; γ -Aminobutyric acid; Acetylcholine; Retina; Visual pathway; Dark adaptation; Light adaptation (Chentanez, T.) **424**, 115

Amygdaloid kindling; Glutamate (Mori, N.) **425**, 45

Cerebellum; Electrosensory lateral line lobe; Amino acid; Glutamate; γ -Aminobutyric acid; Taurine; Glycine (Nadi, S.) **425**, 218

D-Aspartate

[³H]Glutamate binding; Ca²⁺ ion; Cl⁻-dependent binding; Cl⁻-dependent and Ca²⁺-stimulated binding; Anion transport carrier; Quisqualic acid;

Protease inhibitor (Yoneda, Y.) **400**, 70

L-Aspartate

L-Cysteine-sulphinate; N-Methyl-D-aspartate; Quisqualate; Kainate; Ionophoresis; Membrane potential; Caudate; Excitatory amino acid; Cat (Turski, W.A.) **414**, 330

Association cortex

Cortex; Single neuron recording; Bimodal neuron; Unimodal neuron (Minciacchi, D.) **410**, 21

Association fiber

Motor cortex; Sensory cortex; Synapse formation; Axonal branching (Ichikawa, M.) **437**, 131

Associative stimulus

Conditioning; Motor response latency; Interstimulus interval (Hirano, T.) **400**, 171

Associational projection

Cingulate; Commissural neuron; Intrinsic cortical circuitry (Sripanidkulchai, K.) **406**, 255

Astacus

Adipokinetic hormone (AKH); Red pigment concentrating hormone (RPCH); Neuropeptide; Immunocytochemistry; Invertebrate endocrinology; *Lymnaea*; *Porcellio*; *Lithobius* (Schooneveld, H.) **406**, 224

Astrocyte

Synaptic density; Electron microscopy; Cerebellar explant; Cytosine arabinoside (Meshul, C.K.) **402**, 139

Neuroglia; Glial fibrillary acidic protein (GFAP); White matter; Spinal cord; Rat (Liuzzi, F.J.) **403**, 385

γ -Aminobutyric acid (GABA); GABA_A-receptor; Chloride-channel; Neurotransmitter; Rat (Kettenmann, H.) **404**, 1

Estradiol; Hippocampus; Arcuate nucleus; Hypothalamus; Globus pallidus; Glial fibrillary acidic protein; Immunohistochemistry (Tranque, P.A.) **406**, 348

Homograft; Implantation; Spinal cord injury; Immunohistochemistry (Connor, J.R.) **409**, 62

Interferon- γ ; Lipopolysaccharide; Apolipoprotein E (Oropeza, R.L.) **410**, 45

Angiotensinogen; Angiotensin II; Brain; Neuron; Choroid plexus; Immunohistochemistry; Rat (Imboden, H.) **410**, 74

Protein phosphorylation; Cyclic adenosine monophosphate; Calcium (Neary, J.T.) **410**, 164

Nervous system injury; PH; pO₂; Brain cell culture; Neuron; Differentiation; Neurofilament protein; Glial fibrillary acidic protein (Bologa, L.) **411**, 282

Oligodendrocyte; Glycosylation;

Neural-cell adhesion molecule (Bhat, S.) **412**, 144

Barium; Cell culture; Ion homeostasis; Glial cell (Walz, W.) **412**, 405

Neuronotrophic factor; Neuronotoxic factor; Extracellular K⁺ (Lefebvre, P.P.) **413**, 120

Protease nexin I; Cellular binding (Rosenblatt, D.E.) **415**, 40

Glutamate binding; Astrocyte implant; Autoradiography (Bridges, R.J.) **415**, 163

Phorbol diester
12-O-tetradecanoyl-phorbol-13-acetate; Protein kinase C; Arachidonic acid metabolism; Prostaglandin E; Immune response; Inflammation (Hartung, H.-P.) **417**, 347

Arylsulfatase; Kainic acid; Neuron; Rat striatum (Kung, M.-P.) **419**, 141

Prostanoid; Phorbol ester; Protein kinase C; Calcium; Culture (Jeremy, J.) **419**, 364

Primary culture; Cyclic adenosine monophosphate (cAMP); Calcium channel (MacVicar, B.A.) **420**, 175

Retrograde transneuronal transfer; Herpes simplex virus (HSV); Herpes simplex virus replication in neurones; Hypoglossal (XII) motoneuron; XII Premotor interneuron; Inferior olive; Bergmann glial cell (Ugolini, G.) **422**, 242

Hypoxia; Anoxia; Cell culture; Neuron-specific enolase; Glutamate; γ -D-Glutamylglycine (Vibulsreth, S.) **422**, 303

Spinal cord; Injury; Immunoglobulin G (IgG); Immunoglobulin M (IgM); Regeneration; Immunoglobulin (Bernstein, J.J.) **426**, 112

Cytotoxic edema; Cytoplasmic pH; Cell swelling; Na⁺/H⁺ exchange; Glioma cell; Amiloride (Jakubovicz, D.E.) **435**, 138

Leukotriene production; Calcium ionophore A23187; 12-O-Tetradecanoylphorbol 13-acetate (TPA); Immunoinflammatory response; Brain edema (Hartung, H.-P.) **435**, 367

Atrial natriuretic peptide (ANP); Benzodiazepine receptor; Calcium channel; Cyclic guanosine monophosphate; Neuron (Bender, A.S.) **436**, 189

Ammonia; Protein phosphorylation (Neary, J.T.) **437**, 161

Astrocyte implant

Glutamate binding; Astrocyte; Autoradiography (Bridges, R.J.) **415**, 163

Astrocytic Golgi

Neuronal Golgi; Anti-organelle

antibody (Stieber, A.) **408**, 13

Astroglia

Prostanoid; Development; Primary culture (Seregi, A.) **404**, 113

Glial fibrillary acidic protein (GFA-protein); In-situ hybridization; CDNA probe; Immunohistochemistry; Regional difference of GFA-protein; Heterogeneity of astroglia (Kitamura, T.) **423**, 189

Astroglia-like cell

Dolphin brain; Blood-brain barrier; Glia; Tight junction; Gap junction; Brain capillary; Angioarchitectonics; Gloarchitectonics; Glo-glial junction (Glezer, I.I.) **414**, 205

Astroglial cell

Neonatal brain; Tissue culture; Dipeptidyl peptidase; Mercurial; Dipeptide (Stevens, B.R.) **406**, 113

Asymmetry

Nucleus accumbens; Lateralization; Activity; Behavior (Kubos, K.L.) **401**, 147

Basal ganglia; Circling; Dopamine; Hemispheric dominance; Laterality; Striatum (Bracha, H.S.) **411**, 231

Hippocampus; Apodemus; Subiculum; Timm's stain (Slomianka, L.) **436**, 69

CI⁻-ATPase

Na⁺,K⁺-ATPase; Motoneuron; Spinal cord; Rat (Inagaki, C.) **419**, 375

(Na⁺,K⁺)-ATPase

Thiamin; Thiamin deficiency; Ouabain; Cerebellum; Hypothalamus (Matsuda, T.) **437**, 375

Atrial natriuretic factor

Receptor; Autoradiography (Mantyh, C.R.) **412**, 329

Atrial natriuretic peptide

Atriopeptin; Atrial natriuretic peptide receptor; Quantitative autoradiography; Circumventricular organ; Hypothalamic nucleus (Kurihara, M.) **408**, 31

Atriopeptin I; Atriopeptin II; Pial arteriole; Cerebrovascular circulation; Immunohistochemistry (Macrae, I.M.) **435**, 195

Atrial natriuretic peptide (ANP)

Astrocyte; Benzodiazepine receptor; Calcium channel; Cyclic guanosine monophosphate; Neuron (Bender, A.S.) **436**, 189

Atrial natriuretic peptide receptor

Atrial natriuretic peptide; Atriopeptin; Quantitative autoradiography; Circumventricular organ; Hypothalamic nucleus (Kurihara, M.) **408**, 31

Atrial natriuretic polypeptide

Atriopeptin; Glioma cell; Hyperpolarization; Membrane potential (Reiser, G.) **402**, 164

Atriopeptin

Atrial natriuretic polypeptide; Glioma cell; Hyperpolarization; Membrane potential (Reiser, G.) **402**, 164

Atrial natriuretic peptide; Atrial natriuretic peptide receptor; Quantitative autoradiography; Circumventricular organ; Hypothalamic nucleus (Kurihara, M.) **408**, 31

Atriopeptin I

Atrial natriuretic peptide; Atriopeptin II; Pial arteriole; Cerebrovascular circulation; Immunohistochemistry (Macrae, I.M.) **435**, 195

Atriopeptin II

Atrial natriuretic peptide; Atriopeptin I; Pial arteriole; Cerebrovascular circulation; Immunohistochemistry (Macrae, I.M.) **435**, 195

Atropine

Electrocorticogram; Hippocampal theta wave; Phencyclidine; Psychotomimetic opioid; Serotonin; Sigma receptor (Vanderwolf, C.H.) **414**, 109

Atropine sulfate

Acetylcholine release; Cerebral cortex; Vasodilation; Cerebral blood flow; Fastigial nucleus (Arnerić, S.P.) **411**, 212

Attention

Peripheral-central visual field; Event-related brain potential; Hemispheric specialization; Motion perception (Neville, H.J.) **405**, 253

Peripheral-central visual field; Event-related brain potential; Deafness; Motion perception; Hemispheric specialization; Development (Neville, H.J.) **405**, 268

Peripheral-central visual field; Event-related brain potential; Deafness; Motion perception; Hemispheric specialization; Development; American sign language (Neville, H.J.) **405**, 284

Dopamine; Noradrenaline; Ventral tegmental area; Septum; Frontal cortex; Conditioned blocking; Active avoidance (Oades, R.D.) **406**, 136

Audiogenic seizure

Paroxysmal mutant; Auditory brainstem response (ABR); Auditory function (Beck, M.M.) **406**, 93

Inferior colliculus; Cyclic AMP; Convulsion; Rat (Ludvig, N.) **437**, 193

Auditory

Pulvinar; Unit activity; Movement; Behavior; Monkey (Yirmiya, R.) **402**, 93

Auditory brainstem response (ABR)

Anesthesia; Brainstem auditory evoked potential (BAEP); Mouse; Pentobarbital (Church, M.W.) **403**, 72

Audiogenic seizure; Paroxysmal mutant; Auditory function

(Beck, M.M.) **406**, 93

Single unit activity; Superior olivary complex; Timing of unit discharge; Timing of the ABR component; Latency/intensity function (Kano, Y.) **419**, 262

Auditory cortex

Bradycardia; Corticothalamic pathway; Differential Pavlovian conditioning; Medial geniculate; Rabbit; Response inhibition (Jarrell, T.W.) **412**, 285

Amplitude modulation; Time coding; Periodicity analysis; Bird (Hose, B.) **422**, 367

Auditory function

Audiogenic seizure; Paroxysmal mutant; Auditory brainstem response (ABR) (Beck, M.M.) **406**, 93

Auditory input

Superior colliculus; Horseradish peroxidase; Bat (Zhang, S.) **416**, 375

Auditory pathway

Brainstem; Guinea pig; Immunocytochemistry; Neuropeptide; Sexual dimorphism; Vasopressin (Dubois-Dauphin, M.) **437**, 151

Auditory signal

Inferotemporal neuron; Selective attention; Visual cognition; Monkey (Iwai, E.) **410**, 121

Auditory space representation

Bat; Inferior colliculus; Response center (Jen, P.H.) **419**, 7

Auditory stimulation

Positron emission tomography; Cerebral metabolism (Kushner, M.J.) **409**, 79

Auditory system

Bird; γ -Aminobutyric acid; Bicuculline; Iontophoresis (Müller, C.M.) **414**, 376

Posteroventral cochlear nucleus; Lateral superior olive; Guinea pig; *Phaseolus vulgaris* leucoagglutinin (PHA-L) (Thompson, A.M.) **421**, 382

Auditory thalamus

Pigeon; Lateral lemniscus; Wheat germ agglutinin-horseradish peroxidase (WGA-HRP) (Wild, J.M.) **408**, 303

Autologous transplant

Peripheral nerve regeneration; Axon number (Jenq, C.-B.) **406**, 52

Autonomic

Baroreceptor reflex; Blood pressure; Catecholamine; Microiontophoresis; Nucleus tractus solitarius; Single unit (Feldman, P.D.) **420**, 351

Autonomic (sympathetic) neuropathy

Diabetes; Neuroaxonal dystrophy; Dopamine- β -hydroxylase; Axonal transport (Schmidt, R.E.) **401**, 142

Autonomic ganglion

Sympathetic neuron; C-fibre;

Conduction velocity; Axotomy; Frog (Shapiro, J.) **410**, 186

Autonomic nerve

Urinary bladder; Intramural ganglion; Tissue culture; Electrophysiology (Pittam, B.S.) **403**, 267

Autonomic nervous system

β -Endorphin; Acid secretion; Gastrin; Vagotomy (Lenz, H.J.) **413**, 1

Von Ebner's gland; Tongue; Circumvallate papilla; Salivary gland; Taste (Gurkan, S.) **419**, 287

Vanadate; Vanadyl; Insulin; Glucose transport; Hyperglycemia; Central nervous system; Mouse (Amir, S.) **419**, 392

Thyrotropin-releasing hormone; Epinephrine-stimulated hyperglycemia; Thyrotropin-releasing hormone analog; Insulin; Mouse (Amir, S.) **435**, 112

Autonomic nucleus

Neuropeptide Y; Distribution; Cat; Spinal cord; Colchicine (Krukoff, T.L.) **415**, 300

Autonomic pharmacology

Kappa-bungarotoxin; Neuronal nicotinic receptor; Chick embryo; Ciliary ganglion; Sympathetic ganglion; α -Bungarotoxin (Chiappinelli, V.A.) **402**, 21

Tachykinin; Avian sympathetic ganglion; Intracellular recording; Slow synaptic potential; M-current; Substance P (Ramirez, O.A.) **414**, 228

Autoradiography

Vagal afferent fiber; Gastroduodenum; Axonal transport; Nodose ganglion; Rabbit (Sato, M.) **400**, 101

2-Deoxyglucose; Cellular resolution; Neuron; Glial cell (Duncan, G.E.) **401**, 43

Benzodiazepine; Transport; Blood-brain; Receptor; Blood flow; Integral method (Drewes, L.R.) **401**, 55

Methylmercury; Axonal transport; Protein synthesis; Rat; Scintillation spectrometry; [3 H]Proline; Methylmercury 203 (Aschner, M.) **401**, 132

[3 H]Cyclofoxy; Positron emission tomography (PET); Opiate receptor; Naloxone; In vivo autoradiography; Cyclofoxy; Radiolabeled opiates; Naltrexone; Rat brain; Opiate receptor distribution; 6-Deoxy- β -fluoronaltrexone (Ostrowski, N.L.) **402**, 275

Corticostriatal projection; Evoked potential; Topographic organization; Cat; Motor cortex (Updyke, B.V.) **402**, 365

Pirenzepine; Carbamylcholine; Scopolamine; Quinuclidinyl benzilate;

Muscarinic receptor (Messer Jr., W.S.) **407**, 27

Pirenzepine; Scopolamine; Muscarinic receptor; Tolerance; Quinuclidinyl benzilate (Messer Jr., W.S.) **407**, 46

Dopamine receptor; D₁ receptor; SCH-23390; Ibotenic acid; 6-Hydroxydopamine; Substantia nigra (Filloux, F.M.) **408**, 205

[3 H]Ouabain binding; Na⁺, K⁺-ATPase; Pineal gland (Caspers, M.L.) **409**, 335

Nodose ganglion; Axonal transport; Vagal afferent fiber; Epiglottis; Rabbit (Sato, M.) **410**, 101

Hypothalamus; Central nervous system; Heart; Receptor (Henke, H.) **410**, 404

Retina; Neurotransmitter; Immunocytochemistry; γ -Aminobutyric acid (GABA) (Yazulla, S.) **411**, 400

Endogenous opioid; Opioid receptor; Cerebellum; Naltrexone; Methionine-enkephalin; Growth; Cell proliferation (Zagon, I.S.) **412**, 68

Atrial natriuretic factor; Receptor (Mantyh, C.R.) **412**, 329

Opioid binding; Hippocampus; Kindling; Mu opioid peptide; Delta opioid peptide (Crain, B.J.) **412**, 343

Glutamate binding; Astrocyte; Astrocyte implant (Bridges, R.J.) **415**, 163

Adenosine receptor; Cerebral ischemia; Hippocampus; Muscarinic receptor; Septal nucleus; Striatum (Onodera, H.) **415**, 309

Ionic channel; Development; Rat brain (Mourre, C.) **417**, 21

Differentiation; Choline acetyltransferase; Cognition; Neuroblastoma; Transplantation (Kordower, J.H.) **417**, 85

Neuropeptide Y (NPY); Receptor; Area postrema; SHR; Blood pressure (Nakajima, T.) **417**, 360

Opiate receptor; Human brain (Cross, A.J.) **418**, 343

Mammalian brain; Primate brain; α_1 -Adrenoceptor; Hippocampus; Olfactory bulb (Palacios, J.M.) **419**, 65

Neuropeptide Y; Neuropeptide Y receptor; Mammal; Species difference; Forebrain (Martel, J.-C.) **419**, 403

Adenosine receptor; Brain; Maudsley rat; Molecular layer (Marangos, P.J.) **421**, 69

Muscimol; GABA_A receptor; Circle of Willis artery; Pial-arachnoid vessel; Rat (Napoleone, P.) **423**, 109

[3 H]SKF 38393; Dopamine D₁ receptor binding; Mouse (Juhász, M.) **423**, 305

2-Deoxyglucose; Hippocampus; Cerebral cortex; Thalamus; Piracetam; Scopolamine; Rat (Piercey, M.F.) **424**, 1

Brattleboro rat; Dehydration; Dynorphin; κ -Opiate receptor; Receptor localization; Vasopressin (Brady, L.S.) **425**, 212

[3 H]Muscimol; Mouse; Barrel field; γ -Aminobutyric acid (GABA) receptor; Somatosensory cortex (Chmielowska, J.) **425**, 283

Melatonin receptor; [125 I]-Melatonin; Hypothalamus; Suprachiasmatic nucleus; Median eminence (Vaněček, J.) **435**, 359

Glucose utilization; 2-Deoxyglucose; Serotonin; 5-HT_{1A} receptor; Ipsapirone; Hippocampus; Rat (Wree, A.) **436**, 283

Iminodipropionitrile; ECC-syndrome; [125 I]-LSD binding site; 5-HT-2 receptor; Frontal cortex; Striatum; Nucleus accumbens (Cadet, J.L.) **437**, 383

Autoreceptor

Substantia nigra; Globus pallidus; Dopamine; Dopamine agonist; D₁ receptor; D₂ receptor; Single unit recording (Carlson, J.H.) **400**, 205

Rat; Septohippocampal pathway; Axonal terminal excitability; Antidromic stimulation; Microiontophoresis; γ -Aminobutyric acid (GABA); Glutamate; Impulse flow (Dutar, P.) **418**, 98

Dopamine; Electrical stimulation; In vivo voltammetry; Synthesis; Metabolism; Compartment; Dynamics (Michael, A.C.) **421**, 325

Autoregulation

Delayed vasospasm; Angiography; Cerebral blood flow (CBF); Cerebral metabolic rate of oxygen (CMRO₂); Carbon dioxide reactivity; Calcium antagonist (Sahlin, C.) **403**, 313

Sympathetic nerve; Superior cervical ganglion; Bilateral innervation; Spontaneously hypertensive rat; Hypertension; Thalamus (Sadoshima, S.) **413**, 297

Autotomy

Injury; Hyperalgesia; Neurogenic inflammation; Spinal hyperactivity; C-Fiber afferent; Sympathetic efferent; Contralateral foot-withdrawal (Coderre, T.J.) **404**, 95

AV3V area

Angiotensin II; Circumventricular organ; Quantitative autoradiography; Paraventricular nucleus; Neuropeptide binding site (Plunkett, L.M.) **405**, 205

Aversion

Brain stimulation; Local neuronal circuitry; Mesencephalon;

Periaqueductal gray; Rat; Spike train; Stochastic process; Unit activity (Sandner, G.) **421**, 150

Analgesia; Periaqueductal gray; Diazepam; Electrical stimulation; Tail-flick (Morgan, M.M.) **423**, 395

Aversive conditioning

5,7-Dihydroxytryptamine; Feeding behavior; 'Lip-CNS' preparation; Intracellular recording (Balaban, P.M.) **404**, 201

Aversive drive

γ -Aminobutyric acid; Hypothalamus; Defense reaction; Approach; Avoid; Bicuculline; Muscimol (Shekhar, A.) **420**, 118

Aversive footshock

Brain stimulation; Reward; Opiate receptor; In vivo autoradiography (Blake, M.J.) **435**, 181

Aversive reaction

Calcitonin gene-related peptide; Substance P; Spinal dorsal horn; Capsaicin-induced release; Noxious pinch (Oku, R.) **403**, 350

Avian

Respiration; Vocalization; Nucleus tractus solitarius; Parabrachial nucleus; Tracheosyringeal motor nucleus (nXIIIts) (Wild, J.M.) **407**, 191

Somatosensory; Hyperstriatum; Neostriatum; Thalamus; Wheatgerm agglutinin-horseradish peroxidase (Wild, J.M.) **412**, 205

Domestic chicken; Forebrain; Neurotransmitter amino acid; Inhibitory synapse (Csillag, A.) **437**, 283

Avian locomotion

Pontomedullary reticular formation; Reticular formation; Locomotion (Steeves, J.D.) **401**, 205

Avian sympathetic ganglion

Tachykinin; Intracellular recording; Slow synaptic potential; M-current; Substance P; Autonomic pharmacology (Ramirez, O.A.) **414**, 228

Avoid

γ -Aminobutyric acid; Hypothalamus; Defense reaction; Approach; Aversive drive; Bicuculline; Muscimol (Shekhar, A.) **420**, 118

Awake neurophysiology

Naloxone; Spinal dorsal horn (Collins, J.G.) **401**, 95

Axial muscle

Midbrain central gray; Lateral vestibular nucleus; Electromyography; Electrical stimulation; Lateral longissimus; Medial longissimus (Cottingham, S.L.) **421**, 397

Axolemma

Filipin; Cholesterol; Membrane fluidity; Intramembranous particle (IMP); Myelination; Lipid domain (Fields, R.D.) **404**, 21

Ranvier's node; Wallerian degeneration; Frog; Sciatic nerve; Freeze-fracturing; Myelin; Demyelination (Ishise, J.) **418**, 85

Axon

Axonal transport; Bulk transport; Varicosity; Retinal culture; Goldfish (Edmonds, B.) **406**, 288

Microtubule; Olfactory axon; Microtubule length; Microtubule number; Frog olfactory axon; Axonal microtubule (Burton, P.R.) **409**, 71

Potassium channel; Development; Myelinated nerve fiber (Rasminsky, M.) **411**, 167

Axonal transport; Mitochondria; Video microscopy; Organelle movement (Forman, D.S.) **412**, 96

Zonisamide; Sodium current; Anticonvulsant; Inactivation (Schauf, C.L.) **413**, 185

Microtubule; Neuron; Neurite; Compartmentation; Ribosome (Baas, P.W.) **420**, 73

Axon branching

Substantia nigra, pars compacta; Paraventricular nucleus; Pituitary stalk; Antidromic; Latency jump (Klemfuss, H.) **409**, 197

Axon collateral

Expiratory neuron; Nucleus retroambigualis; Intracellular recording; Postsynaptic potential; Horseradish peroxidase; Antidromic stimulation (Arita, H.) **401**, 258

Axon fasciculation

Surface glycoprotein; Leech; Peripheral nervous system (Peinado, A.) **410**, 335

Axon guidance

Retina; Cortex; Xenograft; Allograft; Superior colliculus (Hankin, M.H.) **408**, 344

Axon number

Peripheral nerve regeneration; Autologous transplant (Jenq, C.-B.) **406**, 52

Axonal reaction; Nerve crush; Regeneration (Jenq, C.-B.) **409**, 250

Axon reaction

Lamprey; Spinal cord; Interneuron; Axonal regeneration; Chromatolysis; Denervation; Spontaneous synaptic activity (Yin, H.-S.) **421**, 48

Axon sprouting

Neurofilament; Monoclonal antibody; Thyroid hormone (Gravel, C.) **422**, 327

Axon terminal in XII nucleus

Spinal trigeminal nucleus, pars interpolaris; Horseradish peroxidase; Anterograde labeling; Retrograde labeling; Hypoglossal motoneuron (Borke, R.C.) **422**, 235

Axonal anterograde transport

Sensory nerve fiber; Sensory receptor;

Vagus nerve; Lower esophageal sphincter; Wheat germ agglutinin-horseradish peroxidase; Cat (Clerc, N.) **424**, 216

Axonal arborization

Columnar organization; Hippocampus; CA₁ pyramidal neuron; Subiculum; Horseradish peroxidase (HRP); Computer analysis (Tamamaki, N.) **412**, 156

Axonal branching

Paramedian reticular nucleus; Spinal cord; Horseradish peroxidase; Fluorescent dye; Cardiovascular regulation; Intermediolateral nucleus (Elisevich, K.) **408**, 227

Basal ganglia; Primate; Subthalamopallidal projection; Subthalamostriatal projection; Subthalamonigral projection; Retrograde double-labeling technique (Parent, A.) **436**, 296

Motor cortex; Sensory cortex; Association fiber; Synapse formation (Ichikawa, M.) **437**, 131

Axonal degeneration

Fascia dentata; Transplantation; Electron microscopy; Synaptic connection; Tissue marker (Sørensen, T.) **413**, 392

Axonal elongation

Nerve graft; Thalamocortical connection; Somatosensory pathway; Tracing technique; Horseradish peroxidase (Cossu, M.) **415**, 399

Axonal enlargement

β , β' -Iminodipropionitrile (IDPN); Neurofilament; Excitation, circling and choreiform head and neck movements (ECC) syndrome; Amine metabolism; Neurotoxin (Morandi, A.) **437**, 69

Axonal growth

Nerve regeneration; Tetrodotoxin; Axonal transport; Synaptogenesis; Tubulin; Actin; Goldfish (Antonian, E.) **400**, 403

Axonal microenvironment; Nigrostriatal pathway; Regeneration; Rat (Knoops, B.) **425**, 191

Axonal microenvironment

Axonal growth; Nigrostriatal pathway; Regeneration; Rat (Knoops, B.) **425**, 191

Axonal microtubule

Microtubule; Olfactory axon; Microtubule length; Microtubule number; Frog olfactory axon; Axon (Burton, P.R.) **409**, 71

Axonal output

Identified giant neuron; Synaptic input; Dendritic and axonal arborizations; Buccal ganglion; *Helix pomatia* (Altrup, U.) **414**, 271

Axonal projection

Cortical neuron collateral; Transcallosal

collateral; Wheat germ agglutinin–horseradish peroxidase; Corticostriatal projection (Ferino, F.) **417**, 257

Axonal reaction

Nerve crush; Axon number; Regeneration (Jenq, C.-B.) **409**, 250

Axonal regeneration

Nerve transection; Permeable tube (Jenq, C.-B.) **408**, 239

Pathway selection; *Hirudo medicinalis*; Surface glycoprotein (Peinado, A.) **410**, 330

Spinal root; Sensory neuron; Transganglionic; Enhancement (Richardson, P.M.) **411**, 406

Growth-associated protein; Sensitive period; Activity-dependent sharpening; Axonal transport; Goldfish; Retinotectal pathway (Benowitz, L.I.) **417**, 118

Axon reaction; Lamprey; Spinal cord; Interneuron; Chromatolysis; Denervation; Spontaneous synaptic activity (Yin, H.-S.) **421**, 48

Nerve growth factor; Neurite growth; Peripheral nerve (Sandrock Jr., A.W.) **425**, 360

Guidance channel; Nerve transection; Piezoelectric tube (Aebischer, P.) **436**, 165

Axonal sprouting

Antibody to nerve growth factor; Nerve growth factor; Unmyelinated axon (Hulsebosch, C.E.) **411**, 267

γ -Aminobutyric acid; Immunohistochemistry; Substantia nigra; Superior colliculus; Ventromedial nucleus; Neuronal hypertrophy (Pearson, R.C.A.) **412**, 352

Axonal terminal excitability

Rat; Septohippocampal pathway; Antidromic stimulation; Microiontophoresis; γ -Aminobutyric acid (GABA); Glutamate; Impulse flow; Autoreceptor (Dutar, P.) **418**, 98

Axonal transport

Autoradiography; Vagal afferent fiber; Gastroduodenum; Nodose ganglion; Rabbit (Sato, M.) **400**, 101

Nerve regeneration; Tetrodotoxin; Synaptogenesis; Axonal growth; Tubulin; Actin; Goldfish (Antonian, E.) **400**, 403

Regeneration; Pharmacology (Edström, A.) **401**, 34

Methylmercury; Protein synthesis; Rat; Scintillation spectrometry; Autoradiography; [3 H]Proline; Methylmercury 203 (Aschner, M.) **401**, 132

Autonomic (sympathetic) neuropathy; Diabetes; Neuroaxonal dystrophy;

Dopamine- β -hydroxylase (Schmidt, R.E.) **401**, 142

Retrograde; Lipid droplet; *Aplysia* (Savage, M.J.) **406**, 215

Bulk transport; Varicosity; Axon; Retinal culture; Goldfish (Edmonds, B.) **406**, 288

Rat visual system; Fluorescent tracer; Rhodamine-B-isothiocyanate (Thanos, S.) **406**, 317

Clathrin-associated protein; Coated vesicle; Neuron (Gower, D.J.) **407**, 1

Autoradiography; Nodose ganglion; Vagal afferent fiber; Epiglottitis; Rabbit (Sato, M.) **410**, 101

Axon; Mitochondria; Video microscopy; Organelle movement (Forman, D.S.) **412**, 96

Node of Ranvier; Glycoprotein; Sciatic nerve; Optic nerve (Armstrong, R.) **412**, 196

Glia; Neuron; Glial–neuronal interaction; Proline; Leucine (Berkley, K.J.) **414**, 49

Intralaminar thalamus; Somatosensory system; Horseradish peroxidase; Spinothalamic tract (Ma, W.) **414**, 187

Growth-associated protein; Sensitive period; Activity-dependent sharpening; Axonal regeneration; Goldfish; Retinotectal pathway (Benowitz, L.I.) **417**, 118

Tissue culture; Dorsal root ganglion; Neuron; Taxol; Colchicine; Adult mouse; Microtubule (Horie, H.) **420**, 144

Carbon disulfide; Neurofilament; Giant axonal neuropathy; Toxic neuropathy (Pappolla, M.) **424**, 272

Aldose reductase; Diabetes mellitus; Neuropathy; Streptozotocin; Substance P (Robinson, J.P.) **426**, 339

Doxorubicin; Anthracycline antibiotic; Dorsal root ganglion; Motoneuron; Peripheral nervous system (Borges, L.F.) **426**, 367

Dopamine D₁ receptor; Quantitative autoradiography; Striatonigral pathway; 125 I-SCH 23982 (Aiso, M.) **426**, 392

Axonal undercoating

Myelin deficient rat; Optic nerve (Blakemore, W.F.) **403**, 361

Axotomy

Sympathetic neuron; C-fibre; Conduction velocity; Autonomic ganglion; Frog (Shapiro, J.) **410**, 186

Calmodulin; Superior cervical ganglion (Seto-Ohshima, A.) **410**, 292

Neurite; Transection; Injury; Trauma; Calcium; Retraction; Death (Lucas, J.H.) **425**, 384

B

1,2-Bis(*o*-aminophenoxy)ethane-N,N,N',N'-tetraacetic acid (BAPTA)

Action potential repolarization; Afterhyperpolarization; Ca-activated K-current; Hippocampal pyramidal cell; Calcium chelator; EGTA (Storm, J.F.) **435**, 387

Rhodamine-B-isothiocyanate

Rat visual system; Axonal transport; Fluorescent tracer (Thanos, S.) **406**, 317

Ba current

Calcium channel; Enkephalin receptor; NG 108-15; Naloxone; Intracellular Ca²⁺ (Shimahara, T.) **415**, 357

Ba-current

Supraoptic neuron; Cell culture; Voltage clamp; Na-current (Cobbett, P.) **409**, 175

Baboon

Insular lobe; γ -Aminobutyric acid; Immunocytochemistry (Augustine, J.R.) **424**, 352

Back muscle

Reticular formation; Pudendal nerve; Lordosis behavior (Cohen, M.S.) **405**, 155

Baclofen

Supraoptic nucleus; γ -Aminobutyric acid (GABA); Hypothalamus; Brain slice; Neurosecretion (Ogata, N.) **403**, 225

Phaclofen; Guinea pig ileum; Cat spinal cord (Kerr, D.I.B.) **405**, 150

Seizure; Epilepsy; Interictal; Anticonvulsant; Inhibition; Magnesium (Swartzwelder, H.S.) **410**, 362

Thalamus; Catalepsy; δ -Aminovalerate; Muscimol; Bicuculline (Wüllner, U.) **422**, 129

BALB/c mouse strain

CBA mouse strain; Substantia nigra zona compacta; Ventral tegmental area; Caudate; Met-Enkephalin; Micropunch; Radioimmunoassay (Sanghera, M.K.) **412**, 200

Bar pressing

Hemiparkinsonism; Monkey model; *N*-Methyl-4-phenyl-2,3,5,6-tetrahydropyridine (MPTP) (Brooks, B.A.) **419**, 329

Barbiturate

γ -Aminobutyric acid (GABA); Benzodiazepine; Insect; Locust; Neuron; Neuronal modulation (Lees, G.) **401**, 267

Aldehyde dehydrogenase; Anesthesia; Disulfiram; Hexobarbital; Noradrenaline; Serotonin; Sleeping-time (Nilsson, G.E.) **409**, 265

Alcohol; Benzodiazepine; Ro 15-4513; Bicuculline; Seizure threshold; Mouse (Nutt, D.J.) **413**, 193

Barium

Astrocyte; Cell culture; Ion homeostasis; Glial cell (Walz, W.) **412**, 405

Baroreceptor

Paraventricular nucleus; Tuberoinfundibular neuron; A₁-catecholaminergic area; Glutamate microinjection (Kannan, H.) **409**, 358

Baroreceptor area

Adrenocorticotrophic hormone (ACTH); β -Endorphin; α -Melanocyte-stimulating hormone (α -MSH); Brainstem lesion; Hypothalamus; Nucleus of the solitary tract (Palkovits, M.) **436**, 323

Baroreceptor reflex

Autonomic; Blood pressure; Catecholamine; Microiontophoresis; Nucleus tractus solitarius; Single unit (Feldman, P.D.) **420**, 351

A1-cell group; Caudal ventrolateral medulla; Catecholamine metabolism; In vivo voltammetry; Vasomotor center; Central cardiovascular control; Rat (Quintin, L.) **425**, 319

Medial prefrontal cortex; Excitotoxin; Heart rate; Blood pressure; Rat (Verberne, A.J.M.) **426**, 243

Baroreflex

Ventrolateral medulla; Nucleus tractus solitarius; Excitatory amino acid (Guyenet, P.G.) **407**, 272

Parabrachial nucleus (PBN); Plasma renin; Plasma norepinephrine (Hubbard, J.W.) **421**, 226

Barrel field

[³H]Muscimol; Mouse; Autoradiography; γ -Aminobutyric acid (GABA) receptor; Somatosensory cortex (Chmielowska, J.) **425**, 283

Barrier

Horseradish peroxidase; Spinal cord; Transection (Noble, L.J.) **424**, 177

Basal forebrain

Aging; Cholinergic system; Hippocampus; Receptor (Springer, J.E.) **407**, 180

Choline acetyltransferase; Immunohistochemistry; Horseradish peroxidase; Thalamus (Steriade, M.) **408**, 372

Medial septal nucleus; Cholinergic system; Passive avoidance task; Morris water task; Radial maze task; Learning and memory; Animal model for dementia (Miyamoto, M.) **419**, 19

Nerve growth factor receptor; Cerebrospinal fluid transport; Cholinergic neuron; Cholinergic basal forebrain; Monoclonal antibody (Schweitzer, J.B.) **423**, 309

Visual cortex; Wheat germ agglutinin–horseradish peroxidase (WGA–HRP); Basalocortical pathway; Rat (Carey, R.G.) **424**, 205

Basal forebrain neuron

Cholinergic input; Posterior cingulate cortex; Septal nucleus; Theta rhythm; EEG-spike; Pharmacology (Borst, J.G.G.) **407**, 81

Basal ganglia

Aging; Caudate nucleus; Neurophysiology; Substantia nigra; Cat (Levine, M.S.) **401**, 213

Somatostatin; Neuropeptide Y; Monkey; Cortex (Beal, M.F.) **405**, 213

Substantia nigra pars reticulata; Dentate granule cell; Population spike; NMDA (*N*-methyl-D,L-aspartate); Limbic system excitability (Shin, C.) **411**, 21

Striatum; Caudate nucleus; [¹⁴C]Deoxyglucose; Glucose utilization; Apomorphine; Dopamine (Brown, L.L.) **411**, 65

Asymmetry; Circling; Dopamine; Hemispheric dominance; Laterality; Striatum (Bracha, H.S.) **411**, 231

Dopamine; γ -Aminobutyric acid (GABA); Apomorphine; Supersensitivity; Sham-fighting behavior (Sivam, S.P.) **412**, 29

Horseradish peroxidase; Choline acetyltransferase; Immunocytochemistry; Lateral dorsal tegmental nucleus (Beninato, M.) **412**, 169

Quinolinic acid; Excitotoxin; Neuropeptide Y; Striatum; Rat; Immunohistochemistry (Boegman, R.J.) **415**, 178

Acetylcholinesterase; Catecholamine; Dopamine; Huntington's disease; Immunohistochemistry (Ferrante, R.J.) **416**, 141

Globus pallidus; Single unit; Limb Movement (Mink, J.W.) **417**, 393

Lys⁸-Asn⁹-Neurotensin(8–13); Neuromedin N; Globus pallidus; Striatum; Monkey; Immunohistochemistry (Reiner, A.) **422**, 186

Co-occurrence; Cortex; Dorsal ventricular ridge; Somatostatin; Neuropeptide Y; Evolution; Turtle (Reiner, A.) **426**, 149

Globus pallidus; Dopamine; Tyrosine hydroxylase; Primate; Immunohistochemistry (Parent, A.) **426**, 397

Subthalamic nucleus; Spinal cord; Globus pallidus; Extrapyramidal system; Retrograde fluorescent labeling; Rat (Takada, M.) **436**, 129

Primate; Subthalamopallidal

projection; Subthalamostriatal projection; Subthalamonigral projection; Axonal branching; Retrograde double-labeling technique (Parent, A.) **436**, 296

Huntington's disease; Corticotropin-releasing hormone; Somatostatin; Postmortem human brain; Radioimmunoassay (De Souza, E.B.) **437**, 355

Basal hypothalamus

Neurointermediate lobe; Median eminence; D₂-dopamine receptor; Dopamine release (Planté, J.F.) **413**, 205

Basal lamina

Pacinian corpuscle; Inner core; Extracellular matrix; Nerve regeneration; Freezing (Ide, C.) **413**, 155

Basalocortical pathway

Basal forebrain; Visual cortex; Wheat germ agglutinin–horseradish peroxidase (WGA–HRP); Rat (Carey, R.G.) **424**, 205

Basement membrane

Endoneurial microvessel; Fixation; Vasomotor tone; Ultrastructure; Histologic measurement; Endothelial cell (Schenone, A.E.) **402**, 151

Basilar pontine nucleus

Nucleus gracilis; Nucleus cuneatus; Plasticity (Kosinski, R.J.) **406**, 302

Basket cell

Human hippocampus; Glutamate decarboxylase; Immunocytochemistry; Electron microscopy (Schlander, M.) **401**, 185

Chronic ethanol; Long Sleep mouse; Short Sleep mouse; γ -Aminobutyric acid (GABA); Dentate fascia (Scheetz, A.J.) **403**, 151

Bat

Cerebellar neuron; Spatial response area; Space representation (Sun, X.) **414**, 314

Superior colliculus; Auditory input; Horseradish peroxidase (Zhang, S.) **416**, 375

Inferior colliculus; Response center; Auditory space representation (Jen, P.H.) **419**, 7

Luteinizing hormone-releasing hormone (LH-RH); Pituitary; Ferret; Human; High performance liquid chromatography (HPLC) (Anthony, E.L.P.) **424**, 258

Batrachotoxin

Rainbow trout brain synaptosome; Voltage-dependent sodium channel; Aconitine; Veratridine; Tetrodotoxin; *Leiurus quinquestriatus* venom; DDT (Stuart, A.M.) **437**, 77

BAY K 8644

Analgesia; Activity; Stress;

Stress-induced analgesia; Calcium channel antagonist; Diltiazem; Nifedipine; Verapamil; Opioid analgesia (Kavaliers, M.) **408**, 403

Calcium channel; $^{45}\text{Ca}^{2+}$ uptake; Ethanol; PC12 cell line; Calcium channel antagonist (Greenberg, D.A.) **410**, 143

Neuromuscular junction; Endplate potential; Miniature endplate potential; Calcium channel agonist; Dihydropyridine (Atchison, W.D.) **419**, 315

Nicardipine; Dihydropyridine; Hippocampus; Spontaneously hypertensive rat; Acetylcholine (Brisac, A.-M.) **435**, 160

Bed nucleus of stria terminalis

Corticosterone; Limbic system; Rat (Dunn, J.D.) **407**, 327

Synaptic reorganization; Lesion; Medial amygdaloid nucleus; Accessory olfactory bulb; Electron microscopy; Degenerating synapse; Rat (Ichikawa, M.) **420**, 253

Substance P; Sex difference; Immunocytochemistry (Malsbury, C.W.) **420**, 365

Behavior

Transplantation; Hippocampus; Electroencephalogram; Unit activity; θ -Activity (Buzsáki, G.) **400**, 321

Regeneration; Embryonic transplant; θ -Activity; Electroencephalogram; Unit activity; Hippocampus; Septum; Locus coeruleus (Buzsáki, G.) **400**, 334

Nucleus accumbens; Lateralization; Activity; Asymmetry (Kubos, K.L.) **401**, 147

Pulvinar; Unit activity; Auditory; Movement; Monkey (Yirmiya, R.) **402**, 93

Movement detection; Electrophysiology; Pharmacology; Picrotoxin; γ -Aminobutyric acid (GABA); Fly; *Drosophila* (Bülthoff, H.) **407**, 152

Separation; Benzodiazepine; Endocrine response; Rhesus monkey (Kalin, N.H.) **408**, 192

Locomotor activity; Dopamine; Nucleus accumbens; Ventral pallidum; Dorsomedial nucleus of the thalamus; Medial prefrontal cortex; Pedunculopontine nucleus; Apomorphine; Picrotoxin (Swerdlow, N.R.) **412**, 233

Dopamine; Microdialysis; Interval feeding; Striatum; HPLC/EC (Church, W.H.) **412**, 397

Mast cell-degranulating peptide (MCD); Electroencephalography; Binding; Central nervous system; Hippocampus; Seizure; Theta rhythm

(Bidard, J.-N.) **418**, 235

Parafascicular region; 2-Deoxyglucose uptake (Pavlidis, C.) **423**, 399

Hyperbilirubinemia; Bilirubin encephalopathy; Rat; Open-field; Blood-brain barrier; Free bilirubin; Exploration (Hansen, T.W.R.) **424**, 26

Visual deprivation; Optic lobe; Pattern discrimination; Fly; Compound eye (Mimura, K.) **437**, 97

Behavior mechanism

Tumbling; Serotonin; Amitriptyline; Pigeon behavior (Smith, G.N.) **400**, 399

Behavioral change

Kainic acid; Prostanoid formation; Rat hippocampus; Amygdala/pyriform cortex; Parietal cortex (Baran, H.) **404**, 107

Behavioral hypersensitivity

Lateral habenula; Kainic acid; Stereotypic behavior; Dopamine; Haloperidol (Carvey, P.M.) **409**, 193

Behavioral recovery

Ganglioside; Sprouting; Entorhinal cortex; Hippocampus; Learned alternation (Ramirez, J.J.) **414**, 85

Deep cerebellar nucleus; Glutamic acid decarboxylase; Cerebellar cortex; Climbing fiber; Purkinje cell; Motor behavior; Inferior olive; 3-Acetylpyridine (Sukin, D.) **426**, 82

Behavioral state

Hippocampus; Sleep; Long-term synaptic enhancement; Long-term potentiation (LTP); Field potential; Learning; Memory (Leonard, B.J.) **425**, 174

Benzodiazepine

Transport; Blood-Brain; Receptor; Blood flow; Autoradiography; Integral method (Drewes, L.R.) **401**, 55

γ -Aminobutyric acid (GABA); Insect; Barbiturate; Locust; Neuron; Neuronal modulation (Lees, G.) **401**, 267

Separation; Behavior; Endocrine response; Rhesus monkey (Kalin, N.H.) **408**, 192

Alcohol; Barbiturate; Ro 15-4513; Bicuculline; Seizure threshold; Mouse (Nutt, D.J.) **413**, 193

Monoclonal antibody; Benzodiazepine receptor; Endogenous benzodiazepine; Human cerebellum (De Blas, A.L.) **413**, 275

Benzodiazepine receptor; Endogenous benzodiazepine; Immunocytochemistry; Monoclonal antibody (De Blas, A.L.) **413**, 285

Stress; Benzodiazepine receptor; Adrenal steroid (Miller, L.G.) **414**, 395

Ro 15-1788; Analgesia; Antinociception; Rat (Morgan, M.M.) **415**, 367

Analgesia; 3 α -Hydroxy-5 α -pregnan-20-one (3A5P); Steroid; Opiate; Calcium channel antagonist (Kavaliers, M.) **415**, 393

Ro 5-4864; Adenosine; Cerebral cortex; Neuron (Phillis, J.W.) **416**, 171

Central amygdala; Mammillary body; Antianxiety action; Conflict behavior; Rat (Kataoka, Y.) **416**, 243

Brain metabolism; Caffeine; Methylxanthine; Diazepam; 2-[^{14}C]deoxyglucose (Nehlig, A.) **419**, 272

Clonazepam; Substantia nigra; Kindling; Seizure; Anticonvulsant (King, P.H.) **423**, 261

Hippocampal slice; CA $_1$; Withdrawal; Hyperexcitability (Davies, M.F.) **437**, 239

Benzodiazepine antagonist

Ro 15-1788; Diazepam; Benzodiazepine receptor; Epileptic chicken; Anticonvulsant activity (Pedder, S.C.J.) **424**, 139

Benzodiazepine receptor

Monoclonal antibody; Endogenous benzodiazepine; Human cerebellum; Benzodiazepine (De Blas, A.L.) **413**, 275

Benzodiazepine; Endogenous benzodiazepine; Immunocytochemistry; Monoclonal antibody (De Blas, A.L.) **413**, 285

Stress; Adrenal steroid; Benzodiazepine (Miller, L.G.) **414**, 395

Haloperidol; Cerebral cortex; Brainstem; Adrenoceptor; Muscarinic receptor; GABA $_A$ receptor (Pazo, J.H.) **414**, 405

Glutamate decarboxylase; GABAergic synapse; Immunohistochemistry; Primate retina (Mariani, A.P.) **415**, 153

Primary cultured γ -aminobutyric acid (GABA)ergic neuron; GABA metabolism; GABA receptor; Development (Kuriyama, K.) **416**, 7

Benzodiazepine antagonist; Ro 15-1788; Diazepam; Epileptic chicken; Anticonvulsant activity (Pedder, S.C.J.) **424**, 139

Astrocyte; Atrial natriuretic peptide (ANP); Calcium channel; Cyclic guanosine monophosphate; Neuron (Bender, A.S.) **436**, 189

Benzodiazepine receptor subtype [^3H]Flunitrazepam; Human; Cerebellar cortex (Faull, R.L.M.) **411**, 379

Benzotript

Morphine; Analgesia; Tolerance; Dependence; Cholecystokinin; Proglumide (Panerai, A.E.) **410**, 52

Cholecystokinin; Proglumide;
Antagonist; Hippocampal slice
(Jaffe, D.B.) **415**, 197

Bergmann glia

Pseudocholinesterase; Cerebellum;
Nodulus; Uvula; Sagittal zone;
Purkinje cell (Gorenstein, C.) **418**, 68

Bergmann glial cell

Retrograde transneuronal transfer;
Herpes simplex virus (HSV); Herpes
simplex virus replication in neurones;
Astrocyte; Hypoglossal (XII)
motoneuron; XII Premotor
interneuron; Inferior olive
(Ugolini, G.) **422**, 242

Bestatin

Angiotensin II; Angiotensin III; Brain;
Iontophoresis; Amastatin;
Sar¹-angiotensin II (Harding, J.W.)
424, 299

Bicuculline

Spinal cord; Dorsal horn; Nociceptive
neuron; Inhibition; Muscle afferent;
GABA (Morris, R.) **401**, 365

γ -Aminobutyric acid;
3-Mercaptopropionic acid; Muscimol;
Isoniazid; Hypothalamus; Sympathetic
nervous system; Heart rate; Blood
pressure (DiMicco, J.A.) **402**, 1

Chronic diazepam; γ -Aminobutyric
acid (GABA)-ergic subsensitivity;
Tolerance; Seizure threshold
(Gonsalves, S.F.) **405**, 94

Pentobarbital; Spinal cord;
Nociception; Naloxone; Picrotoxinin;
Intrathecal; GABAergic transmission
(Stein, C.) **407**, 307

Molecular probe; Spreading
depression; Seizure activity; Anoxia;
Mitochondrion; Picrotoxin (Evans, D.)
409, 350

Alcohol; Barbiturate; Benzodiazepine;
Ro 15-4513; Seizure threshold; Mouse
(Nutt, D.J.) **413**, 193

Auditory system; Bird; γ -Aminobutyric
acid; Iontophoresis (Müller, C.M.)
414, 376

γ -Aminobutyric acid; Hypothalamus;
Defense reaction; Approach; Avoid;
Aversive drive; Muscimol
(Shekhar, A.) **420**, 118

Thalamus; Catalepsy; Baclofen;
 δ -Aminovalerate; Muscimol
(Wüllner, U.) **422**, 129

Bicuculline methiodide

Zona incerta-lateral hypothalamus;
Morphine; Catalepsy; Muscular
rigidity; Electromyogram; Picrotoxin
(Wardas, J.) **408**, 363

Epilepsy; Caudate-putamen; Kindling
(Cavalheiro, E.A.) **411**, 370

Bidirectional effect of naloxone

Arthritic rat; Cross-tolerance; Morphine;
Naloxone (Kayser, V.) **405**, 123

Bifurcation projection

Dorsal root ganglion; Ventral root;
Afferent fiber; Calcitonin gene-related
peptide; Rat (Fang, X.-B.) **402**, 393

Bilateral decortication

Subthalamic nucleus; Glutamate
hypersensitivity; Microiontophoresis
(Rouzaire-Dubois, B.) **403**, 366

Bilateral estradiol implant

Female hamster; Dual estradiol
implant; Agonistic behavior;
Scent-marking behavior; Lordosis;
Medial preoptic area; Ventromedial
hypothalamus (Takahashi, L.K.)
425, 337

Bilateral innervation

Sympathetic nerve; Superior cervical
ganglion; Spontaneously hypertensive
rat; Hypertension; Thalamus;
Autoregulation (Sadoshima, S.)
413, 297

Bilateral representation

Somatosensory cortex; Oral structure;
Tactile sensation; Somatotopic
representation; Cytoarchitectural
organization (Taira, K.) **409**, 41

Bilirubin encephalopathy

Hyperbilirubinemia; Rat; Behavior;
Open-field; Blood-brain barrier; Free
bilirubin; Exploration
(Hansen, T.W.R.) **424**, 26

Bimodal neuron

Cortex; Single neuron recording;
Unimodal neuron; Association cortex
(Minciacchi, D.) **410**, 21

Binding

Estradiol; Melatonin; Brain;
Ovariectomy (Laudon, M.) **402**, 146

Ontogeny; Neurotensin; Rat brain
(Schotte, A.) **408**, 326

Mast cell-degranulating peptide
(MCD); Behavior;
Electroencephalography; Central
nervous system; Hippocampus; Seizure;
Theta rhythm (Bidard, J.-N.) **418**, 235

Binding assay

Muscarinic cholinergic receptor;
Cultured caudate putamen nucleus;
[³H]Scopolamine; Excitatory
postsynaptic current;
Electrophysiological recording
(Usami, K.) **420**, 167

Binding protein

Nerve growth factor (NGF);
Conditioned medium; L-cell; 7S NGF
(Siminoski, K.) **435**, 273

Binding site

Excitatory amino acid; Glutamate;
Aspartate; Cysteine sulfinat
(Pin, J.-P.) **402**, 11

Acetylcholine; Nicotine; Cat visual
cortex; Lateral geniculate nucleus;
Receptor (Prusky, G.T.) **412**, 131

2-Amino-4-phosphonobutyrate;
Hippocampal lesion (Butcher, S.P.)

419, 294

Binocular interaction

Visual cortex; Corpus callosum;
Stereopsis; Disparity-sensitive neuron;
Depth perception; Nasotemporal
overlap; Ocular dominance; Cat
(Gardner, J.C.) **413**, 60

Binocularity

Pretectum; Visual motion detection;
Rotation selectivity; Salamander
(Manteuffel, G.) **422**, 381

Bioassay

Prolactin; Brain; Anterior Pituitary;
Radioimmunoassay; Gel filtration
chromatography; Hypophysectomy;
Restraint stress (Emanuele, N.V.)
421, 255

Biochemistry

Immunocytochemistry; Retina;
LANT-6; Amacrine cell; Ganglion cell
(Eldred, W.D.) **424**, 361

Biogenic amine

Brain; Operant conditioning;
Handedness (Schwartz, R.) **417**, 75

Biogenic amine metabolism

El mouse; Epileptic convulsion; Metal
ion level; Ethanol-induced sleep;
Calcification (Sutoo, D.) **418**, 205

Biogenic amine metabolite

Valproic acid; Anticonvulsant;
Cerebrospinal fluid; Lactic acid;
Organic acid transport (MacMillan, V.)
420, 268

Biological clock

Circadian rhythm; Acetylcholine;
Entrainment; Suprachiasmatic nucleus
(Keefe, D.L.) **403**, 308

Biomagnetism

Magnetoencephalography;
Neuromagnetism; Magnetic evoked
field; Cerebellum; Turtle; Purkinje cell
(Okada, Y.C.) **412**, 151

Biometrical analysis

Brain weight development; Genetic
selection (Hewitt, J.K.) **417**, 225

Biosynthesis

Aging; Dopamine receptor subtype;
Motor function (Henry, J.M.) **418**, 334

Biotin-avidin

Blotting; Brain tumor; Glycoprotein;
Human; Lectin (Davidsson, P.)
412, 254

Biotinylated wheat germ agglutinin

Hippocampus; Septum; γ -Aminobutyric
acid; Immunocytochemistry
(Shinoda, K.) **409**, 181

Bipiperidyl mustard

Monosodium glutamate;
Cholecystokinin; Ventromedial
hypothalamus; Paraventricular nucleus;
Insulin; Hyperphagia; Feeding; Obesity
(Scallet, A.C.) **407**, 390

Bird

Dorsal lateral geniculate nucleus; Relay

neuron; Retinal terminal; Wulst terminal; Synaptic glomerulus (Watanabe, M.) **401**, 279

Synapse; Visual system; Monocular deprivation; Quantitative analysis (Nixdorf, B.) **405**, 326

Isthmo-optic nucleus; Visual Wulst; Visual cortex; Centrifugal visual system (Uchiyama, H.) **406**, 322

Auditory system; γ -Aminobutyric acid; Bicuculline; Iontophoresis (Müller, C.M.) **414**, 376

Auditory cortex; Amplitude modulation; Time coding; Periodicity analysis (Hose, B.) **422**, 367

Bladder voiding

Rat; Micturition reflex; Somato-vesical reflex; Vesico-vesical reflex; Urethane; Sensory neuron; Sensory-efferent function (Maggi, C.A.) **415**, 1

Blood flow

Benzodiazepine; Transport; Blood-Brain; Receptor; Autoradiography; Integral method (Drewes, L.R.) **401**, 55

Common carotid artery; Medulla; Reticular formation; Vascular resistance (Kuo, J.S.) **417**, 181

Subarachnoid hemorrhage; Intracranial pressure; Lipid peroxidation; Vitamin E (Travis, M.A.) **418**, 366

Graft vessel permeability; Graft vessel function (Tsubaki, S.I.) **424**, 71

Dynorphin A; Spinal cord; Opioid; Naloxone; Paralysis (Long, J.B.) **436**, 374

Blood glucose

Hypoglycemia; Insulin; Locus coeruleus; Noradrenergic neuron; Stress (Morilak, D.A.) **422**, 32

Blood pressure

γ -Aminobutyric acid; Bicuculline; 3-Mercaptopropionic acid; Muscimol; Isoniazid; Hypothalamus; Sympathetic nervous system; Heart rate (DiMicco, J.A.) **402**, 1

Norepinephrine; Anteroventral third cerebral ventricle (AV3V); Catecholamine; Dopamine; Angiotensin II; Drinking; 6-Hydroxydopamine (Bellin, S.I.) **403**, 105

γ -Aminobutyric acid (GABA); Nucleus tractus solitarius; Vasopressin; Neurotransmitter; Hypertension; Muscimol (Catelli, J.M.) **403**, 279

Vasopressin; Renin; Catecholamine; Thirst; Urinary water excretion (Davis, B.J.) **405**, 1

Calcium gluconate; Arginine vasopressin; Hypothalamus; Vasopressinergic neuron; Catecholamine (Benetos, A.) **412**, 182

Substance P; Nucleus tractus solitarius; Substance P antagonist; Heart rate; Rat (Kubo, T.) **413**, 379

Locus coeruleus; Central nervous system; Heart rate; Vasopressin; Glutamate; 6-Hydroxydopamine (Sved, A.F.) **414**, 119

Area postrema; Nucleus tractus solitarius; Heart rate; Dorsal motor nucleus of the vagus (Averill, D.B.) **414**, 294

Drinking; Angiotensin II; Catecholamine; Angiotensin-induced thirst; Pressor response (Bellin, S.I.) **416**, 75

Neuropeptide Y (NPY); Receptor; Autoradiography; Area postrema; SHR (Nakajima, T.) **417**, 360

Angiotensin II; Angiotensin III; Drinking; Spontaneously hypertensive rat (Wright, J.W.) **420**, 289

Autonomic; Baroreceptor reflex; Catecholamine; Microiontophoresis; Nucleus tractus solitarius; Single unit (Feldman, P.D.) **420**, 351

Neuropeptide Y; Rostral ventrolateral medulla; Bulbospinal pathway; C₁ adrenaline-containing neuron; Rabbit (Pilowsky, P.M.) **420**, 380

Neurohypophyseal peptide; Noradrenaline; Peptide/amine interaction; Nucleus tractus solitarius; Brattleboro rat (Vallejo, M.) **422**, 295

Intracranial pressure; Vasopressin; Oxytocin; Cerebrospinal fluid vasopressin; Goat (Seckl, J.R.) **423**, 279

Adenosine analog; Fourth ventricle; Heart rate; Caffeine (Barraco, R.A.) **424**, 17

Medial prefrontal cortex; Excitotoxin; Baroreceptor reflex; Heart rate; Rat (Verberne, A.J.M.) **426**, 243

Blood pressure regulation

α_2 -Adrenergic receptor; Quantitative autoradiography; Spontaneously hypertensive rat; Essential hypertension; Cardiovascular control (Gehlert, D.R.) **409**, 308

Substance P; Nucleus tractus solitarius; Capsaicin; (D-Pro², D-Trp^{7,9})-substance P (Luković, L.) **422**, 312

Blood pressure response

Chronic cathodal lesion; Noradrenergic neuron; 6-Hydroxydopamine; Central transmitter release; Heart rate response; Rabbit (Korner, P.I.) **435**, 258

Blood serum

Cerebral arterial spasm; Hippocampal slice; Thromboxane B₂ (Cach, R.) **414**, 1

Blood vessel

Peripheral nerve; Blood-nerve barrier;

Calcium; Regulation; Homeostasis; Neuropathy; Hypercalcemia; Hypocalcemia; Endoneurium; Magnesium; Ion (Rechthand, E.) **406**, 185

Blood volume

Arterial pressure; Body weight; Brainstem; Dorsal rostral pons; Locus coeruleus (Ward, D.G.) **423**, 373

Blood-brain

Benzodiazepine; Transport; Receptor; Blood flow; Autoradiography; Integral method (Drewes, L.R.) **401**, 55

Blood-brain barrier

Protamine sulfate; Blood-brain barrier disruption; Polycation; Endothelial surface charge; Heparin (Strausbaugh, L.J.) **409**, 221

Cerebral endothelium; Glial induction (Maxwell, K.) **410**, 309

Adriamycin; Disruption; Mannitol; Neurotoxicity; Chemotherapy; Rat (Kondo, A.) **412**, 73

Neural transplant; Adrenal medulla; Vascular permeability; Macromolecule; Catecholamine (Rosenstein, J.M.) **414**, 192

Dolphin brain; Glia; Tight junction; Gap junction; Brain capillary; Angioarchitectonics; Gliomorphogenesis; Gliomorphogenesis; Astroglia-like cell (Glezer, I.I.) **414**, 205

Mannitol; Triethyl tin; Reversibility (Inoue, T.) **414**, 309

Glycoconjugate; Lectin; Cerebral endothelium; Cultured cell; Protein blot (Fatehi, M.I.) **415**, 30

Cholecystokinin octapeptide; Cholecystokinin receptor antagonist; Feeding behavior; Dog; Cerebrospinal fluid (CSF) (Inui, A.) **417**, 355

Hyperbilirubinemia; Bilirubin encephalopathy; Rat; Behavior; Open-field; Free bilirubin; Exploration (Hansen, T.W.R.) **424**, 26

Globoid cell leukodystrophy; Krabbe disease; Twitcher Mouse; Cuprizone; Demyelination (Kondo, A.) **425**, 186

Blood-brain barrier disruption

Protamine sulfate; Blood-brain barrier; Polycation; Endothelial surface charge; Heparin (Strausbaugh, L.J.) **409**, 221

Blood-brain barrier permeability

Heat stress; 5-Hydroxytryptamine level; Cerebral blood flow; *p*-Chlorophenylalanine; Indomethacin; Diazepam; Cyproheptadine; Vinblastine (Sharma, H.S.) **424**, 153

Blood-cerebrospinal fluid barrier breakdown

Cerebrospinal fluid formation; Cholera toxin (Hyman, S.) **419**, 104

Blood-nerve barrier

Peripheral nerve; Calcium; Regulation; Homeostasis; Blood vessel; Neuropathy; Hypercalcemia; Hypocalcemia; Endoneurium; Magnesium; Ion (Rechthand, E.) **406**, 185

Endoneurial capillary; Ionic permeability; Sciatic nerve; Excitability (Weerasuriya, A.) **419**, 188

Blotting

Biotin-avidin; Brain tumor; Glycoprotein; Human; Lectin (Davidsson, P.) **412**, 254

Bodian stain

Interpeduncular nucleus; Fasciculus retroflexus; Substance P; Choline acetyltransferase; Serotonin; Cytochrome oxidase; Plasticity; Development (Barr, G.A.) **418**, 301

Body curvature

Electrical stimulation; Circling; Head turn; Refractory period; Summation; Anteromedial cortex; Medial pons (Tehovnik, E.J.) **407**, 240

Body fluid balance

Intracerebroventricular; NaCl; Angiotensin II; Operant behavior; Drinking behavior (Weisinger, R.S.) **420**, 135

Body mass

Photoperiod; Seasonal cycle; Brain size; Hormone; Sex difference (Dark, J.) **409**, 302

Body temperature

REM sleep; Phentolamine; α -Adrenoceptor antagonist (Kent, S.) **415**, 169

Body temperature range

Superoxide dismutase; Heat stress; Thermal loading (Fishman, R.H.B.) **410**, 343

Body water balance

Paraventricular nucleus; Thermosensitivity; Slice preparation; Phasic firing neuron; Vasopressin neuron (Inenaga, K.) **424**, 126

Body weight

Medial septal lesion; Superior cervical ganglion; Peripheral sympathetic nervous system; Feeding; Drinking (Harrell, L.E.) **408**, 131

Rat; Ventromedial hypothalamic nucleus; Ibotenic acid; Food intake; Hyperphagia; Obesity (Shimizu, N.) **416**, 153

Arterial pressure; Blood volume; Brainstem; Dorsal rostral pons; Locus coeruleus (Ward, D.G.) **423**, 373

Bombesin

Sympathetic nervous system; Dopamine β -hydroxylase; 1-Cyclohexyl-2-mercapto-imidazole; Norepinephrine turnover; Cold exposure (Brown, M.) **400**, 35

Stomach; Celiac ganglion; Retrograde labeling; Immunohistochemistry (Hamaji, M.) **416**, 192

Botulinum type A toxin

Quabain; Neuromuscular junction; Transmitter release; Presynaptic mechanism; Na^+ - Ca^{2+} exchange (Molgo, J.) **410**, 385

Böttinger complex

Medulla; Respiratory neuron; Halothane anesthesia; Retrofacial nucleus (Grelot, L.) **404**, 335

Bouton

Neuron; Glia; Dendrite; Capillary; Mitochondria; Rat; Plasticity; Memory; Learning (Sirevaag, A.M.) **424**, 320

Bovine

Phenylethanolamine; *N*-methyltransferase; Isozyme; Characterization; Adrenal (Wong, D.L.) **410**, 32

Bovine peripheral nervous system

Purified insulin receptor; Phosphorylation; Paleocortex; Liver; Superior cervical ganglion; Trigeminal ganglion; Structure; Function (Waldbillig, R.J.) **409**, 215

Bradycardia

Auditory cortex; Corticothalamic pathway; Differential Pavlovian conditioning; Medial geniculate; Rabbit; Response inhibition (Jarrell, T.W.) **412**, 285

Bradykinin

Perivascular microapplication; Hydrogen ion; Potassium ion; Adenosine; DC potential (Wahl, M.) **411**, 72

Angiotensin; Electrophysiology; Glioma cell; Desensitization (Höpp, H.-P.) **412**, 175

Hyperalgesia; Nociception; Leukotriene B_4 ; Norepinephrine; Prostaglandin E_2 (Taiwo, Y.O.) **423**, 333

Brain

Thyrotropin-releasing hormone; Gastric acid (Hernandez, D.E.) **401**, 381

Estradiol; Melatonin; Binding; Ovariectomy (Laudon, M.) **402**, 146

Estrogen receptor; Nucleus hyperstriatum ventrale, pars caudale; Immunocytochemistry; Canary; Zebra finch (Gahr, M.) **402**, 173

Peripheral benzodiazepine binding site; [^3H]PK 11195; Ontogenetic development; Heart; Lung (Fares, F.) **408**, 381

Na^+ , K^+ -ATPase; Serotonin receptor; Regulation (Hernández R., J.) **408**, 399

Glutathione; Histochemistry; Mercury orange; Monkey; Rodent (Slivka, A.) **409**, 275

Angiotensinogen; Angiotensin II;

Astrocyte; Neuron; Choroid plexus; Immunohistochemistry; Rat (Imboden, H.) **410**, 74

Angiotensin II; Angiotensin III; Electrophysiology; Iontophoresis; Spontaneously hypertensive rat (Harding, J.W.) **410**, 130

Proline; Ornithine; Arginine; Formoguanamine (2,4-diamino-S-triazine); Retina; Ornithine- δ -aminotransferase; Δ^1 -Pyrroline-5-carboxylate reductase (Matsuzawa, T.) **413**, 314

Neurotensin; Wistar-Kyoto (WKY) rat; Spontaneously hypertensive (SH) rat; Radioimmunoassay (Shulkes, A.) **415**, 404

Alcohol; Acetaldehyde; Microtubule; Tubulin; Polymerization; Adduct (McKinnon, G.) **416**, 90

Somatostatin; Kindling; Central nervous system; Neuropeptide (Pitkänen, A.) **416**, 180

Biogenic amine; Operant conditioning; Handedness (Schwartz, R.) **417**, 75

Glycogen; Glucose; Microwave (Sagar, S.M.) **417**, 172

^{125}I -Angiotensin II binding; Monosodium glutamate; Rat; Circumventricular organ (Rogulja, I.) **419**, 333

δ -Opioid receptor; Thermal antinociception; Spinal cord (Heyman, J.S.) **420**, 100

Vasoactive-intestinal peptide; Acid secretion (Hernandez, D.E.) **420**, 129

Choline; Nicotinic receptor; α -Bungarotoxin; Rat (Morley, B.J.) **421**, 21

Adenosine receptor; Maudsley rat; Autoradiography; Molecular layer (Marangos, P.J.) **421**, 69

Prolactin; Anterior Pituitary; Radioimmunoassay; Bioassay; Gel filtration chromatography; Hypophysectomy; Restraint stress (Emanuele, N.V.) **421**, 255

Gastrin; Hypothalamus; Ventromedial nucleus; Lateral hypothalamus; Microinfusion; Gastric secretion; Caudate-putamen (Gunion, M.W.) **422**, 118

Angiotensin II; Angiotensin III; Iontophoresis; Amastatin; Bestatin; Sar 1 -angiotensin II (Harding, J.W.) **424**, 299

Monoclonal antibody; Phenylalanine hydroxylase; Tyrosine hydroxylase; Tryptophan hydroxylase; Immunocytochemistry (Haan, E.A.) **426**, 19

Hippocampus; Transected slice; Carbachol; Theta (θ); Two-generator

hypothesis (Konopacki, J.) **436**, 217

Adenosine uptake;
Nitrobenzylthioinosine; Ontogeny;
Adenosine deaminase (Geiger, J.D.)
436, 265

Coding; Spike; Statistical analysis;
Triplet; Redundancy (Lestienne, R.)
437, 214

Brain adenosine

A₁ receptor; REM sleep deprivation;
Rat (Yanik, G.) **402**, 362

Brain area

β -Endorphin₂₋₉;
Arginine-8-vasopressin; Oxytocin
(Laczi, F.) **403**, 155

Brain capillary

Dolphin brain; Blood-brain barrier;
Glia; Tight junction; Gap junction;
Angioarchitectonics;
Glioarchitectonics; Glio-glial junction;
Astroglia-like cell (Glezer, I.I.)
414, 205

Peptide transport (Duffy, K.R.)
420, 32

Brain cell

Glucose metabolism; Anomeric
specificity (Malaisse, W.J.) **419**, 147

Brain cell culture

Nervous system injury; PH; pO_2 ;
Neuron; Astrocyte; Differentiation;
Neurofilament protein; Glial fibrillary
acidic protein (Bologa, L.) **411**, 282

Renin; Immunocytochemistry;
Radioimmunoassay; High performance
liquid chromatography; Normotensive
WKY rat; Spontaneously hypertensive
(SH) rat (Hermann, K.) **437**, 205

Brain cortex

Kainic acid; Neurotoxicity; Pyknosis;
Swelling; Calcium; Chloride;
Cytoskeleton (Berdichevsky, E.)
423, 213

Brain culture

Brain glucose uptake regulation;
Phorbol ester; Protein kinase C
(Clarke, D.) **421**, 358

Brain damage

Hyperthermia; Microwave; Glial
fibrillary acidic protein; Response to
injury; Rat (Miller, D.B.) **415**, 371

Nerve agent; Soman;
O-ethyl-S-(2-diisopropyl-
aminoethyl)-methylphosphonothioate
(VX); Convulsion; Amygdala;
Neuropathology; Excitotoxic;
Microinjection (McDonough Jr., J.H.)
435, 123

Brain development

Neuronal cell culture; Glutamic acid
decarboxylase; Neuronal-glial
interaction (Aizenman, Y.) **406**, 32

Glutamine synthetase; Central nervous
system cell culture (Aizenman, Y.)
414, 301

Brain differentiation

Sex difference; Opiate receptor;
Golden hamster; *Mesocricetus auratus*;
Naloxone; Hypothalamus; Sexual
dimorphism;
[D-Ala², D-Leu⁵]Enkephalin binding;
Sexually dimorphic nucleus
(Ostrowski, N.L.) **421**, 1

Brain dopamine

Quantitative autoradiography;
Dopamine receptor; Substantia nigra;
Caudate putamen; Nucleus accumbens;
Olfactory tubercle (Aiso, M.) **408**, 281

Brain edema

Astrocyte; Leukotriene production;
Calcium ionophore A23187;
12-O-Tetradecanoylphorbol 13-acetate
(TPA); Immunoinflammatory response
(Hartung, H.-P.) **435**, 367

Brain eicosanoid

Rat brain cortex; Hypoxia; Recovery;
Carbohydrate metabolite (Petroni, A.)
415, 226

Brain endothelial cell

Monolayer culture; Electrical
resistance; Aortic endothelial culture;
Epididymal endothelial culture;
Permeability (Rutten, M.J.) **425**, 301

Brain glucose uptake regulation

Phorbol ester; Protein kinase C; Brain
culture (Clarke, D.) **421**, 358

Brain graft

Hypogonadal mouse; Preoptic area;
Luteinizing hormone; Reflex ovulation;
Persistent estrus (Gibson, M.J.)
424, 133

Brain imaging

Phencyclidine; Deoxyglucose; Glucose
utilization; Limbic system; σ -Receptor
(Weissman, A.D.) **435**, 29

Brain infarction

Protein; Acid-base homeostasis;
Ischemia; Buffer capacity; Acidosis
(Kraig, R.P.) **410**, 390

Brain injury

Brain ischemia; Anesthetic;
Pentobarbital; Ketamine; Survival rate
(Shimoji, K.) **408**, 385

Dynorphin; Leucine-enkephalin;
 β -Endorphin; Trauma;
Radioimmunoassay (McIntosh, T.K.)
425, 225

Brain ionic homeostasis

Potassium; Ion-selective microelectrode
(Moghaddam, B.) **406**, 337

Brain ischemia

Spin trapping; Electron spin resonance;
Free radical; Lipid peroxidation
(Tominaga, T.) **402**, 370

Brain injury; Anesthetic;
Pentobarbital; Ketamine; Survival rate
(Shimoji, K.) **408**, 385

Brain lesion

Glutamate; Ibotenate; Noradrenaline;
Inositol phospholipid hydrolysis

(Nicoletti, F.) **436**, 103

Excitotoxin; Quinolinic acid;
Hippocampus; Gliosis;
Neurodegenerative disorder
(Speciale, C.) **436**, 18

Brain metabolism

Correlation matrix; Positron emission
tomography; Alzheimer's disease;
Deoxyglucose (Horwitz, B.) **407**, 294

Caffeine; Methylxanthine; Diazepam;
Benzodiazepine; 2-[¹⁴C]deoxyglucose
(Nehlig, A.) **419**, 272

Brain microsome

Intracellular calcium; Uptake; Release;
Inositol trisphosphate (Shah, J.) **419**, 1

Arachidonate; Sodium pump;
Na⁺, K⁺-ATPase; Mouse diaphragm
(Vyskočil, F.) **436**, 85

Brain nucleus

Amygdala; Dopamine; Turnover;
Limbic system; α -Methyltyrosine;
Norepinephrine (Kilts, C.D.) **416**, 402

Brain oxygen supply

Seizure; Status epilepticus; Pulmonary
edema; Cerebral hypoxia; Cytochrome
oxidase (cytochrome a, a₃)
(Kreisman, N.R.) **417**, 335

Brain perfusion

Guinea pig; Respiratory rhythm
generation; CNS electrophysiology; In
vitro preparation; Intracellular
recording (Richerson, G.B.) **409**, 128

Brain size

Photoperiod; Seasonal cycle; Body
mass; Hormone; Sex difference
(Dark, J.) **409**, 302

Brain slice

Angiotensin II; Supraoptic nucleus;
Subfornical organ; Anteroventral third
ventricle (Okuya, S.) **402**, 58

Anoxic damage; Anesthetic;
Thiopental; Isoflurane; Hippocampus;
Anoxia (Bendo, A.A.) **403**, 136

Supraoptic nucleus; γ -Aminobutyric
acid (GABA); Hypothalamus;
Neurosecretion; Baclofen (Ogata, N.)
403, 225

Noradrenaline; α -Receptor; Supraoptic
neuron; Intracellular recording
(Yamashita, H.) **405**, 348

Fluoroacetate; Glutamate; Glutamine;
Evoked release; Ca²⁺-dependence
(Szerb, J.C.) **410**, 116

Endogenous γ -aminobutyric acid
(GABA) release; Vocalization nucleus;
Zebra finch (Sakaguchi, H.) **410**, 380

Norepinephrine; Adrenergic receptor;
Adrenergic agonist and antagonist;
Hypothalamic ventromedial nucleus;
Estrogen (Kow, L.-M.) **413**, 220

Oxytocin; Oxytocin neuron; Supraoptic
nucleus; Oxytocin analogue
(Yamashita, H.) **416**, 364

Anomalous rectification; Inward rectification; Locus coeruleus (Osmanović, S.S.) **417**, 161

Hippocampus; Carbachol; θ -Rhythm; Phase shifting (Konopacki, J.) **417**, 399

Acetylcholine release; Calcium; Frequency modulation; Hippocampus (Pohorecki, R.) **420**, 199

Voltammetry; Dopamine overflow; Diffusion of dopamine; Uptake of dopamine (Kelly, R.S.) **423**, 79

Norepinephrine release; Electrical stimulation; Desipramine; Tyrosine; Hypothalamus; Rat (Irie, K.) **423**, 391

PH measurement; Synaptic transmission (Krishtal, O.A.) **436**, 352

Brain stimulation

Aversion; Local neuronal circuitry; Mesencephalon; Periaqueductal gray; Rat; Spike train; Stochastic process; Unit activity (Sandner, G.) **421**, 150

Reward; Aversive footshock; Opiate receptor; In vivo autoradiography (Blake, M.J.) **435**, 181

Brain stimulation reward

Self-stimulation; Forebrain ablation; Lateral hypothalamus (Colle, L.M.) **407**, 285

Opioid; Ventral tegmental area; Lateral hypothalamus (Jenck, F.) **423**, 34

Brain stimulation-induced aggression

Hypothalamus; Lactation; Maternal aggression; Female; Pregnancy; Wound pattern (Mos, J.) **404**, 263

Brain temperature

Muramyl peptide; Slow-wave sleep; Rapid eye movement (REM) sleep; Electroencephalogram (EEG); Fever (Krueger, J.M.) **403**, 258

Brain tumor

Biotin-avidin; Blotting; Glycoprotein; Human; Lectin (Davidsson, P.) **412**, 254

Brain weight development

Genetic selection; Biometrical analysis (Hewitt, J.K.) **417**, 225

Brain-specific protein

S-100 protein; Kidney; Enzyme immunoassay; Purification; Isoprotein (Semba, R.) **401**, 9

Brain-stimulation reward

Dopamine; 3,4-Dihydroxyphenylalanine (DOPA); NSD-1015; Tyrosine hydroxylase; Ventral tegmental area; Nucleus accumbens; Striatum; Olfactory tubercle; Food reward (Phillips, A.G.) **402**, 109

Brain-gut peptide

Secretin; Vasoactive intestinal peptide; Peptide histidine isoleucine amide; Preoptic area; Luteinizing hormone; Prolactin (Kimura, F.) **410**, 315

Brainstem

Locus coeruleus; Vestibular complex; Vestibular nucleus; Deiters' nucleus; Horseradish peroxidase (Fung, S.J.) **401**, 347

Locus coeruleus; Monosynaptic reflex; Renshaw cell; Descending control; Spinal cord; Motoneuron; Inhibition (Fung, S.J.) **402**, 351

Classical conditioning; Eyelid response; Neural plasticity; Cerebellum; Lesion; Learning; Rabbit (Mauk, M.D.) **403**, 89

Substance P; Human; Adult; Immunocytochemistry (Nomura, H.) **404**, 365

Angiotensin II; Respiratory neurone; Nucleus of the tractus solitarius; Sensory physiology; Respiration (Sessle, B.J.) **407**, 163

Vasoconstriction; Sympathetic nervous system; Pituitary; Cardiovascular signal; Periaqueductal gray; Dorsal rostral pons (Ward, D.G.) **407**, 369

Dorsal raphe; Thermoregulation (Keenan, C.L.) **410**, 189

Immunocytochemistry; Adrenaline; Ultrastructure; C₁ area; Catecholamine (Milner, T.A.) **411**, 28

Immunocytochemistry; L-Glutamate decarboxylase; Catecholamine; Adrenaline; C₁ area (Milner, T.A.) **411**, 46

Conscious; Respiration; Olfaction; Action potential (Du Pont, J.S.) **414**, 163

Intercostal-to-phrenic reflex; Phrenic afferent; Respiration; Spinal cord (Speck, D.F.) **414**, 169

Haloperidol; Cerebral cortex; Adrenoceptor; Muscarinic receptor; GABA_A receptor; Benzodiazepine receptor (Pazo, J.H.) **414**, 405

Neurotensin; Analgesia; Nucleus raphe magnus; Pain; Microinjection (Fang, F.G.) **420**, 171

Arterial pressure; Blood volume; Body weight; Dorsal rostral pons; Locus coeruleus (Ward, D.G.) **423**, 373

Auditory pathway; Guinea pig; Immunocytochemistry; Neuropeptide; Sexual dimorphism; Vasopressin (Dubois-Dauphin, M.) **437**, 151

Brainstem afferent

Paramedian pontine reticular formation; Horseradish peroxidase; Cat; Oculomotor system; Eye movement (Leichnetz, G.R.) **422**, 389

Brainstem auditory evoked potential (BAEP)

Anesthesia; Auditory brainstem response (ABR); Mouse; Pentobarbital (Church, M.W.) **403**, 72

Brainstem connectivity

Intracellular recording; Medial pontine reticular formation; Midbrain reticular formation (McCarley, R.W.) **409**, 111

Intracellular recording; Medial pontine reticular formation; Bulbar reticular formation (Ito, K.) **409**, 97

Brainstem in vitro

Respiratory rhythm; Neuronal activity; Rostral ventrolateral medulla; Newborn rat (Onimaru, H.) **403**, 380

Brainstem lesion

Baroreceptor area; Adrenocorticotrophic hormone (ACTH); β -Endorphin; α -Melanocyte-stimulating hormone (α -MSH); Hypothalamus; Nucleus of the solitary tract (Palkovits, M.) **436**, 323

Brainstem-cerebellum hyperinnervation

Kindling antagonism; Norepinephrine; Neonate; 6-Hydroxydopamine (Applegate, C.D.) **407**, 212

Brattleboro rat

Capillary density; Paraventricular nucleus; Magnocellular neuron; Parvocellular neuron; Supraoptic nucleus; Pituitary neural lobe (Sposito, N.M.) **403**, 375

Neurohypophyseal peptide; Noradrenaline; Peptide/amine interaction; Nucleus tractus solitarius; Blood pressure (Vallejo, M.) **422**, 295

Autoradiography; Dehydration; Dynorphin; κ -Opiate receptor; Receptor localization; Vasopressin (Brady, L.S.) **425**, 212

Breadth of responsiveness

Nucleus of the solitary tract; Convergence; Gustatory; Anterior tongue; Posterior oral cavity; Hamster (Sweazey, R.D.) **408**, 173

p-Bromophenylacetylurea

Hypoxia; Experimental Neuropathy; Slow axonal transport; Nerve conduction velocity; Ischemic conduction failure (Nagata, H.) **422**, 319

Brown adipose tissue

Ventromedial hypothalamus; Zucker rat; Sympathetic efferent; Supraoptic nucleus; Lateral hypothalamus; Dorsomedial nucleus (Holt, S.J.) **405**, 227

Pre-pontine knife cut; Hyperthermia; Cardiac output distribution; Thermoregulation; Non-shivering thermogenesis (Shibata, M.) **436**, 273

Buccal ganglion

Identified giant neuron; Synaptic input; Axonal output; Dendritic and axonal arborizations; *Helix pomatia* (Altrup, U.) **414**, 271

Buffer capacity

Protein; Acid-base homeostasis;

Ischemia; Brain infarction; Acidosis (Kraig, R.P.) **410**, 390

Bulbar glomerulus

Olfaction; Horseradish peroxidase; Topography; Nasal cavity (Astic, L.) **424**, 144

Bulbar reticular formation

Intracellular recording; Brainstem connectivity; Medial pontine reticular formation (Ito, K.) **409**, 97

Bulbospinal pathway

Neuropeptide Y; Blood pressure; Rostral ventrolateral medulla; C₁ adrenaline-containing neuron; Rabbit (Pilowsky, P.M.) **420**, 380

Bulbospinal projection

Coexistence; Retrograde fiber tracing; 5-Hydroxytryptamine; Glutamic acid decarboxylase; Raphe complex; Rat (Millhorn, D.E.) **410**, 179

Bulbospinal system

Rat; Immunohistochemistry; Fiber tracing; Colocalization; Fluoro-Gold dye; Neuropeptide (Millhorn, D.E.) **424**, 99

Bulk transport

Axonal transport; Varicosity; Axon; Retinal culture; Goldfish (Edmonds, B.) **406**, 288

Bulla gouldiana

Circadian rhythm; Pacemaker coupling; *Aplysia californica*; *Bursatella leachi plei*; Mollusc (Roberts, M.H.) **423**, 286

Bullfrog

Sympathetic ganglion; Sucrose-gap; Slow inhibitory postsynaptic potential (IPSP); Slow excitatory postsynaptic potential (EPSP); Muscarinic receptor (Yavari, P.) **400**, 133

Choroid plexus; Chloride; Membrane transport; Cerebrospinal fluid; Cyclic AMP; Intracellular ion activity (Saito, Y.) **417**, 267

Prednisolone; γ -Aminobutyric acid receptor; Sensitivity; Dorsal root ganglion (Ariyoshi, M.) **435**, 241

Bungarotoxin

Muscle denervation; Tetrodotoxin; Cyclic AMP-dependent protein kinase II; Acetylcholine receptor (Held, I.R.) **407**, 341

α -Bungarotoxin

Kappa-bungarotoxin; Neuronal nicotinic receptor; Autonomic pharmacology; Chick embryo; Ciliary ganglion; Sympathetic ganglion (Chiappinelli, V.A.) **402**, 21

Suprachiasmatic nucleus; Circadian rhythm; Receptor autoradiography; Hypothalamus; Light-dark cycle; Acetylcholine (Fuchs, J.L.) **407**, 9

Choline; Brain; Nicotinic receptor; Rat (Morley, B.J.) **421**, 21

Acetylcholine receptor; Transmission

efficiency; Receptor turnover (Rochel, S.) **435**, 41

Buphtalmos

Glaucoma; Sex-linked recessive gene; Albino quail (Weidner, C.) **419**, 357

Bursatella leachi plei

Circadian rhythm; Pacemaker coupling; *Bulla gouldiana*; *Aplysia californica*; Mollusc (Roberts, M.H.) **423**, 286

Burst

Magnesium; Hippocampal slice; Epilepsy; *N*-Methyl-D-aspartate receptor (Schneiderman, J.H.) **410**, 174

Burst firing

Sympathetic preganglionic neuron; Calcium current; Noradrenaline; Pacemaker activity (Yoshimura, M.) **420**, 147

Burst neuron

Superior colliculus; Saccade; Eye movement (Peck, C.K.) **408**, 329

Bursting activity

Aminopyridine; Epilepsy; Neocortex; Giant PSP (Szenté, M.) **413**, 368

Intracellular calcium concentration; Calcium ionophore; Snail neuron; Seizure (Sugaya, E.) **416**, 183

Caudate-putamen; Anesthetized rat; Scrotal skin temperature; Temperature information (Taylor, D.C.M.) **419**, 352

Bursting cell

Slow synaptic current; Potassium conductance; Neuron modulation; *Helix* (Pin, T.) **412**, 165

Bursting neuron

Oscillation; Potassium current; Stomatogastric ganglion; Lobster; Central pattern generator (Harris-Warrick, R.M.) **416**, 381

γ -[³⁵S]Butyl bicyclophosphorothionate (TBPS) binding

Glucocorticoid; γ -Aminobutyric acid (GABA) receptor (Majewska, M.D.) **418**, 377

Butyrylcholinesterase

Acetylcholine; Acetylcholinesterase; Electron microscope; Histochemistry; Human retina (Hutchins, J.B.) **400**, 300

γ -Butyrolactone

Tuberoinfundibular dopamine neuron; Median eminence; Arcuate nucleus stimulation; 3,4-Dihydrophenylacetic acid; Prolactin (Lookingland, K.J.) **436**, 161

Guillain-Barré syndrome

Polyradiculoneuritis; Peripheral nerve disease; Schwann cell; Myelin sheath; Tissue culture (Birchem, R.) **421**, 173

C

C fiber

Sympathetic neuron; Conduction velocity; Axotomy; Autonomic ganglion; Frog (Shapiro, J.) **410**, 186

Nociceptor; Pain; Ephapse; Gap junction; Electrotonic; Reflex sympathetic dystrophy; Sympathetic nervous system (Meyer, R.A.) **437**, 181

C fiber activation

Dorsal horn neuron; Serotonergic descending inhibitory system; Cinaserin; Methysergide; Nociception (Rivot, J.P.) **403**, 142

C fiber afferent

Injury; Hyperalgesia; Neurogenic inflammation; Spinal hyperactivity; Sympathetic efferent; Autotomy; Contralateral foot-withdrawal (Coderre, T.J.) **404**, 95

C1 adrenaline-containing neuron

Neuropeptide Y; Blood pressure; Rostral ventrolateral medulla; Bulbospinal pathway; Rabbit (Pilowsky, P.M.) **420**, 380

C1 area

Immunocytochemistry; Adrenaline; Brainstem; Ultrastructure; Catecholamine (Milner, T.A.) **411**, 28

Immunocytochemistry; L-Glutamate decarboxylase; Catecholamine; Adrenaline; Brainstem (Milner, T.A.) **411**, 46

C3-C5 propriospinal neuron

Crossed; Uncrossed; Monosynaptic excitatory postsynaptic potential; Higher motor center; Primary afferent (Alstermark, B.) **404**, 382

Vestibular nucleus; Monosynaptic excitatory postsynaptic potential; Monosynaptic inhibitory postsynaptic potential (Alstermark, B.) **404**, 389

Input; Subgroup; Regulation hindlimb tonus (Alstermark, B.) **404**, 395

C6 cell

Opioid receptor; Appearance; β -Receptor; Down-regulation (Reggiani, A.) **423**, 254

Ca antagonist

Frog sensory neuron; Ca current; Open channel block; Concentration clamp (Oyama, Y.) **417**, 143

Ca current

Frog sensory neuron; Ca antagonist; Open channel block; Concentration clamp (Oyama, Y.) **417**, 143

Ca-activated K-current

Action potential repolarization; Afterhyperpolarization; Hippocampal pyramidal cell; Calcium chelator;

1,2-Bis(*o*-aminophenoxy)-ethane-N,N,N',N'-tetraacetic acid (BAPTA); EGTA (Storm, J.F.) **435**, 387

Ca-antagonist, D890

Neocortical pyramidal cell; Paroxysmal depolarization shift (Deisz, R.A.) **422**, 63

CA1

Calcium entry blocker; Presynaptic calcium influx; Postsynaptic calcium influx (Jones, R.S.G.) **416**, 257

Benzodiazepine; Hippocampal slice; Withdrawal; Hyperexcitability (Davies, M.F.) **437**, 239

CA1 population spike

Glutamine; Hypoxia; Hippocampal slice (Schurr, A.) **412**, 179

Glucose; Hippocampal slice; Hypoxia (Schurr, A.) **421**, 135

CA1 pyramidal neuron

Columnar organization; Hippocampus; Subiculum; Axonal arborization; Horseradish peroxidase (HRP); Computer analysis (Tamamaki, N.) **412**, 156

CA2-3

Aging; Senile dementia; Alzheimer's disease; Dendrite; Human; Hippocampus (Flood, D.G.) **409**, 88

Ca²⁺ activity

Ca²⁺ buffering; Ca²⁺-selective electrode; Squid axon (Fong, C.N.) **436**, 229

Ca²⁺ binding protein

Parvalbumin; Fast spiking neuron; Cholecystokinin; Somatostatin; γ -Aminobutyric acidergic system; Local circuit neuron; Cerebral cortex (Kosaka, T.) **409**, 403

γ -Aminobutyric acid (GABA); Glutamic acid decarboxylase (GAD); Parvalbumin; Local circuit neuron; Hippocampus; Dentate gyrus; Immunohistochemistry (Kosaka, T.) **419**, 119

Ca²⁺ buffering

Ca²⁺-selective electrode; Squid axon; Ca²⁺ activity (Fong, C.N.) **436**, 229

Ca²⁺ current

Ca²⁺ spike; Inactivation; Conductance; Hippocampus; Voltage-clamp; Vertebrate central nervous system (Pitler, T.A.) **410**, 147

Synthetic ω -conotoxin; Concentration clamp; Internal perfusion (Oyama, Y.) **424**, 58

Ca²⁺ mobilization

Kyotorphin; Met-enkephalin releaser; Chlorotetracycline (Ueda, H.) **419**, 197

Ca²⁺ movement

Pentobarbital; Cerebral artery; Femoral artery (Sanchez-Ferrer, C.F.) **411**, 304

Ca²⁺ spike

Ca²⁺ current; Inactivation; Conductance; Hippocampus; Voltage-clamp; Vertebrate central nervous system (Pitler, T.A.) **410**, 147

Ca²⁺ transport

Ethanol; Synaptic membrane; Na⁺-Ca²⁺ antiporter; Chronic alcohol; Ion transport (Michaelis, M.L.) **414**, 239

Ca²⁺ uptake

Voltage-dependent calcium channel; Calmodulin; Protein kinase C; Calcium channel antagonist; PC12 cell line (Greenberg, D.A.) **404**, 401

Calcium channel; Ethanol; PC12 cell line; Calcium channel antagonist; BAY K 8644 (Greenberg, D.A.) **410**, 143

Ca²⁺-activated K⁺ channel

Intracellular Ca²⁺ release (Satin, L.) **401**, 331

Ca²⁺-dependence

Fluoroacetate; Glutamate; Glutamine; Brain slice; Evoked release (Szerb, J.C.) **410**, 116

Ca²⁺-loading

Dye-coupling; Hippocampus; Fluorescein isothiocyanate (FITC) dextran (Rao, G.) **408**, 267

Ca²⁺-selective electrode

Ca²⁺ buffering; Squid axon; Ca²⁺ activity (Fong, C.N.) **436**, 229

Ca²⁺/calmodulin

Protein phosphorylation; Hippocampal slice; 4-Aminopyridine; Epilepsy (De Graan, P.N.E.) **404**, 345

Ca²⁺ ion

[³H]Glutamate binding; Cl⁻-dependent binding; Cl⁻-dependent and Ca²⁺-stimulated binding; Anion transport carrier; D-Aspartate; Quisqualic acid; Protease inhibitor (Yoneda, Y.) **400**, 70

Cable model

Spinal cord; Motoneuron; Membrane resistance; Electrotonic length; Time constant; Dendrite (Glenn, L.L.) **435**, 398

Caffeine

Sleep; Adenosine; Rat (Yanik, G.) **403**, 177

Brain metabolism; Methylxanthine; Diazepam; Benzodiazepine; 2-[¹⁴C]deoxyglucose (Nehlig, A.) **419**, 272

Adenosine analog; Fourth ventricle; Blood pressure; Heart rate (Barraco, R.A.) **424**, 17

Adenosine triphosphate-dependent calcium uptake; Neuronal endoplasmic reticulum; Lysed brain synaptosome; Cyclic adenosine 3',5'-monophosphate (Mekhaill-Ishak, K.) **426**, 62

Hippocampus; Theophylline; Kainic acid; Metrazol; Adenosine receptor;

Epilepsy (Ault, B.) **426**, 93

Facilitation; Potentiation; Long-term potentiation; Excitatory postsynaptic potential (Lee, W.-L.) **426**, 250

Calbindin D-27 kDa

Chick and pigeon retina; Visinin; Calcium-binding protein; Western blotting; Immunohistochemistry (Pasteels, B.) **412**, 107

Calcification

Pineal body; Human; Aging; Histology; Cyst; Hypertension (Hasegawa, A.) **409**, 343

El mouse; Epileptic convulsion; Metal ion level; Biogenic amine metabolism; Ethanol-induced sleep (Sutoo, D.) **418**, 205

Calcineurin

Hippocampus; Immunohistochemistry; Zinc; Phosphatase; Calmodulin; Peroxidase antiperoxidase method (Matsui, H.) **402**, 193

Calcitonin

Neurite regeneration; Gastropod neuron; Somatostatin; Growth factor (Grimm-Jørgensen, Y.) **403**, 121

Calcitonin gene-related peptide; Calcium; Parathyroid hormone (Goltzman, D.) **416**, 1

Calcitonin gene-related peptide

Dorsal root ganglion; Ventral root; Afferent fiber; Bifurcation projection; Rat (Fang, X.-B.) **402**, 393

Substance P; Spinal dorsal horn; Capsaicin-induced release; Noxious pinch; Aversive reaction (Oku, R.) **403**, 350

Substance P; Cholecystokinin; Eye; Sensory innervation; Trigeminal ganglion; Guinea pig; Cholera toxin B subunit; Retrograde axonal transport; Immunohistochemistry (Kuwayama, Y.) **405**, 220

γ -Aminobutyric acid (GABA); Coexistence; Purkinje cell; Immunocytochemistry; Rat (Kawai, Y.) **409**, 371

Substance P; Somatostatin; Sensory neuron; Skin; Human; Immunofluorescence (Gibbins, I.L.) **414**, 143

Cerebellum; Development; Immunohistochemistry; Rat (Kubota, Y.) **415**, 385

Calcitonin; Calcium; Parathyroid hormone (Goltzman, D.) **416**, 1

Substance P; Quinolinic acid; Kainic acid; Striatum; Immunohistochemistry; Cat (Sugimoto, T.) **418**, 392

Intraepithelial innervation (Byers, M.R.) **419**, 311

Lateral line organ; Hair cell; Neurotransmitter; Efferent nerve

(Adams, J.C.) **419**, 347

Calcitonin gene-related peptide fiber

Sympathetic neuron; Sensory fiber; Synaptic contact; Immunoelectron microscopy (Lee, Y.) **407**, 149

Calcium

Calcium channel; Calcium channel agonist; Calcium channel inhibitor; Seizure; Anticonvulsant (Shelton, R.C.) **402**, 399

Protein kinase C; Phorbol ester; Transmitter release; Hippocampus; Glutamate (Malenka, R.C.) **403**, 198

Peripheral nerve; Blood-nerve barrier; Regulation; Homeostasis; Blood vessel; Neuropathy; Hypercalcemia; Hypocalcemia; Endoneurium; Magnesium; Ion (Rechthand, E.) **406**, 185

Astrocyte; Protein phosphorylation; Cyclic adenosine monophosphate (Neary, J.T.) **410**, 164

Acetylcholine receptor; Receptor metabolism; Lithium; Skeletal muscle; Cation; Phosphoinositide (Pestronk, A.) **412**, 302

Calcitonin; Calcitonin gene-related peptide; Parathyroid hormone (Goltzman, D.) **416**, 1

Astrocyte; Prostanoid; Phorbol ester; Protein kinase C; Culture (Jeremy, J.) **419**, 364

Acetylcholine release; Brain slice; Frequency modulation; Hippocampus (Pohorecki, R.) **420**, 199

γ -Aminobutyric acid (GABA); Primary afferent depolarization; Divalent cation (Curtis, D.R.) **422**, 192

Neurosecretion; Corpus cardiacum; Adipokinetic hormone; Octopamine; Cyclic adenosine monophosphate; Locust (Pannabecker, T.) **423**, 13

Brain cortex; Kainic acid; Neurotoxicity; Pyknosis; Swelling; Chloride; Cytoskeleton (Berdichevsky, E.) **423**, 213

Inositol 1,4,5-trisphosphate; Photoreceptor; Aequorin; Discrete burst; Microinjection (Corson, D.W.) **423**, 343

Neurite; Transection; Axotomy; Injury; Trauma; Retraction; Death (Lucas, J.H.) **425**, 384

Circadian rhythm; Suprachiasmatic nucleus; 2-Deoxyglucose method (Shibata, S.) **426**, 332

Quaking mouse; Calcium-activated neutral proteinase; 2',3'-Cyclic nucleotide 3'-phosphohydrolase; Myelin; Cytosol (Banik, N.L.) **435**, 57

Calmodulin; Chlorpromazine; Neuromuscular junction; Transmitter

release (Sahaf, Z.Y.) **437**, 397

Calcium antagonist

Delayed vasospasm; Angiography; Cerebral blood flow (CBF); Cerebral metabolic rate of oxygen (CMRO₂); Carbon dioxide reactivity; Autoregulation (Sahlin, C.) **403**, 313

Calcium channel; Chirality; Dihydropyridine receptor; Catecholamine release; Adrenal medulla (Fonteriz, R.I.) **408**, 359

Muscarinic receptor; M₁-receptor; Rat cerebral cortex (Katayama, S.) **422**, 168

Maitotoxin; Calcium channel; Membrane current; Neuroblastoma (Yoshii, M.) **424**, 119

Calcium channel

Acute ethanol; Cerebral cortex; Hippocampus; Striatum (Rius, R.A.) **402**, 359

Calcium; Calcium channel agonist; Calcium channel inhibitor; Seizure; Anticonvulsant (Shelton, R.C.) **402**, 399

Calcium antagonist; Chirality; Dihydropyridine receptor; Catecholamine release; Adrenal medulla (Fonteriz, R.I.) **408**, 359

⁴⁵Ca²⁺ uptake; Ethanol; PC12 cell line; Calcium channel antagonist; BAY K 8644 (Greenberg, D.A.) **410**, 143

Enkephalin receptor; NG 108-15; Naloxone; Intracellular Ca²⁺; Ba current (Shimahara, T.) **415**, 357

Astrocyte; Primary culture; Cyclic adenosine monophosphate (cAMP) (MacVicar, B.A.) **420**, 175

Maitotoxin; Membrane current; Calcium antagonist; Neuroblastoma (Yoshii, M.) **424**, 119

Na⁺/Ca²⁺ exchange; Intracellular calcium; Ageing (Martínez, A.) **435**, 249

Astrocyte; Atrial natriuretic peptide (ANP); Benzodiazepine receptor; Cyclic guanosine monophosphate; Neuron (Bender, A.S.) **436**, 189

Calcium channel agonist

Calcium; Calcium channel; Calcium channel inhibitor; Seizure; Anticonvulsant (Shelton, R.C.) **402**, 399

BAY K 8644; Neuromuscular junction; Endplate potential; Miniature endplate potential; Dihydropyridine (Atchison, W.D.) **419**, 315

Calcium channel antagonist

Voltage-dependent calcium channel; Calmodulin; Protein kinase C; ⁴⁵Ca²⁺ uptake; PC12 cell line (Greenberg, D.A.) **404**, 401

Analgesia; Activity; Stress;

Stress-induced analgesia; Diltiazem; Nifedipine; Verapamil; BAY K 8644; Opioid analgesia (Kavaliers, M.) **408**, 403

Calcium channel; ⁴⁵Ca²⁺ uptake; Ethanol; PC12 cell line; BAY K 8644 (Greenberg, D.A.) **410**, 143

Analgesia; Phe-Met-Arg-Phe-NH₂ (FMRFamide); Morphine; Stress; Stress-induced analgesia; Immobilization; Naloxone; Opioid analgesia (Kavaliers, M.) **415**, 380

Analgesia; 3 α -Hydroxy-5 α -pregnan-20-one (3A5P); Steroid; Opiate; Benzodiazepine (Kavaliers, M.) **415**, 393

Calcium channel inhibitor

Calcium; Calcium channel; Calcium channel agonist; Seizure; Anticonvulsant (Shelton, R.C.) **402**, 399

Calcium chelator

Action potential repolarization; Afterhyperpolarization; Ca-activated K-current; Hippocampal pyramidal cell; 1,2-Bis(o-aminophenoxy)-ethane-N,N,N',N'-tetraacetic acid (BAPTA); EGTA (Storm, J.F.) **435**, 387

Calcium current

Frog sensory neuron; γ -Aminobutyric acid; Chloride current; Internal perfusion; Concentration-clamp technique (Inoue, M.) **404**, 301

Sympathetic preganglionic neuron; Noradrenaline; Pacemaker activity; Burst firing (Yoshimura, M.) **420**, 147

Respiratory neuron; Repetitive discharge; QX-314 (Mifflin, S.) **420**, 22

Calcium dependence of release

Glutamate release; Veratridine- and potassium-induced release; Tetrodotoxin; Anoxia; Hypoxia; Rat; Development of release (Minc-Golomb, D.) **402**, 255

Calcium entry blocker

CA₁; Presynaptic calcium influx; Postsynaptic calcium influx (Jones, R.S.G.) **416**, 257

Calcium flux

G_{M1} gangliosidosis; Synaptosome (Koenig, M.L.) **424**, 169

Calcium gluconate

Arginine vasopressin; Hypothalamus; Vasopressinergic neuron; Catecholamine; Blood pressure (Benetos, A.) **412**, 182

Calcium ionophore

Intracellular calcium concentration; Bursting activity; Snail neuron; Seizure (Sugaya, E.) **416**, 183

Calcium ionophore A23187

Astrocyte; Leukotriene production; 12-O-Tetradecanoylphorbol 13-acetate

- (TPA); Immunoinflammatory response; Brain edema (Hartung, H.-P.) **435**, 367
- Calcium overload**
Neuroblastoma cell line; Energy metabolism; Amino acid incorporation; Calcium uptake; Protein synthesis (Abe, K.) **423**, 221
- Calcium uptake**
Putrescine; Spermine; Spermidine; Synaptosome; Free intracellular calcium (Komulainen, H.) **401**, 50
- Calcium overload; Neuroblastoma cell line; Energy metabolism; Amino acid incorporation; Protein synthesis (Abe, K.) **423**, 221
- Calcium-activated neutral proteinase**
Quaking mouse; Calcium; 2',3'-Cyclic nucleotide 3'-phosphohydrolase; Myelin; Cytosol (Banik, N.L.) **435**, 57
- Calcium-activated potassium conductance**
Neuroleptic; Hippocampus; Intracellular recording (Dinan, T.G.) **407**, 159
- Calcium-binding protein**
Chick and pigeon retina; Visinin; Calbindin D-27 kDa; Western blotting; Immunohistochemistry (Pasteels, B.) **412**, 107
- Fast spiking cell; Parvalbumin; γ -Aminobutyric acid (GABA)ergic neuron; Non-pyramidal cell; Hippocampus; Intracellular injection of Lucifer yellow; Immunohistochemistry (Kawaguchi, Y.) **416**, 369
- Calcium-binding protein (CaBP-28k)**
Vestibular hair cell; Immunocytochemistry (Sans, A.) **435**, 293
- Callosal connection**
Visual cortex; Visual topography; Striate area; Extrastriate area; Microelectrode mapping; Horseradish peroxidase; Rat (Thomas, H.C.) **417**, 214
- Callosal development**
Corpus callosum; Acallosal brain; Probst's bundle; Anterior commissure; Hippocampal commissure; DdN Strain mouse (Ozaki, H.S.) **400**, 239
- Calmodulin**
Calcineurin; Hippocampus; Immunohistochemistry; Zinc; Phosphatase; Peroxidase antiperoxidase method (Matsui, H.) **402**, 193
- Voltage-dependent calcium channel; Protein kinase C; Calcium channel antagonist; $^{45}\text{Ca}^{2+}$ uptake; PC12 cell line (Greenberg, D.A.) **404**, 401
- Lithium; Phosphorylation; 64-KDa protein; Protein kinase (Klein, E.) **407**, 312
- Superior cervical ganglion; Axotomy (Seto-Ohshima, A.) **410**, 292
- Calcium; Chlorpromazine; Neuromuscular junction; Transmitter release (Sahaf, Z.Y.) **437**, 397
- Calyx synapse**
Ciliary ganglion; Chick ciliary ganglion; Presynaptic nerve terminal; Synapse structure; Lucifer yellow (Stanley, E.F.) **421**, 367
- N-CAM**
D2-protein; Synaptic remodelling; Red nucleus; D1-protein; D3-protein; S-100; Lesion (Jørgensen, O.S.) **406**, 39
- CAMP**
 α_2 -Adrenoceptor; Antidepressant (Nomura, S.) **410**, 195
- Canary**
Estrogen receptor; Brain; Nucleus hyperstriatum ventrale, pars caudale; Immunocytochemistry; Zebra finch (Gahr, M.) **402**, 173
- Capillary**
Choline acetyltransferase; Endothelial cell; Rat brain (González, J.L.) **412**, 148
- Neuron; Glia; Bouton; Dendrite; Mitochondria; Rat; Plasticity; Memory; Learning (Sirevaag, A.M.) **424**, 320
- Capillary density**
Paraventricular nucleus; Magnocellular neuron; Parvocellular neuron; Supraoptic nucleus; Pituitary neural lobe; Brattleboro rat (Sposito, N.M.) **403**, 375
- Capsaicin**
Substance P; Trigeminal ganglion; Forebrain cerebral vessel; Pia arachnoid; Superior cervical ganglion; 6-Hydroxydopamine (Saito, K.) **403**, 66
- Spinal cord; Dorsal horn; Sural nerve; Somatosensory system; Afferent fiber (Tattersall, J.E.H.) **416**, 337
- Hyperalgesia; Nociception; Chronic pain (Simone, D.A.) **418**, 201
- Primary sensory afferent; Urinary bladder; Spinal cord; Horseradish peroxidase; Selective degeneration (Jancsó, G.) **418**, 371
- Substance P; Blood pressure regulation; Nucleus tractus solitarius; (D-Pro², D-Trp^{7,9})-substance P (Luković, L.) **422**, 312
- Sensory nerve terminal; Rat urinary bladder; Substance P; Neuropeptide (depletion from sensory nerves); Capsaicin desensitization (Maggi, C.A.) **436**, 402
- Capsaicin desensitization**
Capsaicin; Sensory nerve terminal; Rat urinary bladder; Substance P; Neuropeptide (depletion from sensory nerves) (Maggi, C.A.) **436**, 402
- Capsaicin-induced release**
Calcitonin gene-related peptide; Substance P; Spinal dorsal horn; Noxious pinch; Aversive reaction (Oku, R.) **403**, 350
- Carbachol**
Theta; Hippocampal brain slice; Muscarinic; Electro encephalogram (EEG) (Konopacki, J.) **405**, 196
- Desynchronized sleep; Pontine tegmentum; Acetylcholine; Cat; Microinjection (Baghdoyan, H.A.) **414**, 245
- Hippocampus; Brain slice; θ -Rhythm; Phase shifting (Konopacki, J.) **417**, 399
- Hippocampus; Brain; Transected slice; Theta (θ); Two-generator hypothesis (Konopacki, J.) **436**, 217
- Carbamazepine**
Anticonvulsant; Epilepsy; Afterdischarge; Hippocampus (Smith, K.L.) **400**, 371
- Carbamylcholine**
Pirenzepine; Scopolamine; Autoradiography; Quinuclidinyl benzilate; Muscarinic receptor (Messer Jr., W.S.) **407**, 27
- Nicotine; Chronic treatment; Muscarinic receptor; High-affinity site; Cerebral cortex (Yamanaka, K.) **409**, 395
- Cerebral cortex; Muscarinic cholinergic receptor; Inositol phosphate; Pirenzepine; AF-DX 116 (Smith, T.L.) **420**, 362
- Carbohydrate metabolite**
Rat brain cortex; Hypoxia; Recovery; Brain eicosanoid (Petroni, A.) **415**, 226
- Carbon dioxide**
Phrenic; Recurrent laryngeal; Hypoglossal; Respiratory rhythm; Oscillation; Spectral analysis; Pulmonary afferent (Cohen, M.I.) **417**, 148
- Carbon dioxide reactivity**
Delayed vasospasm; Angiography; Cerebral blood flow (CBF); Cerebral metabolic rate of oxygen (CMRO₂); Autoregulation; Calcium antagonist (Sahlin, C.) **403**, 313
- Carbon disulfide**
Axonal transport; Neurofilament; Giant axonal neuropathy; Toxic neuropathy (Pappolla, M.) **424**, 272
- Carbon monoxide**
Hypoxia; Monoamine metabolite (MacMillan, V.) **408**, 40
- Carbonic anhydrase**
Acetazolamide; Peripheral nerve (Oswald, T.) **406**, 379
- 3(2-Carboxypiperazin-4-yl)-propyl-1-phosphonic acid (CPP)**
Frontal cortex; Hyperactivity; Locomotion; N-Methyl-D-aspartate (O'Neill, K.A.) **435**, 371

Cardiac afferent

Viscerosympathetic reflex; Renal nerve; Very late response (Lukoshkova, E.V.) **412**, 357

Cardiac output distribution

Pre-pontine knife cut; Hyperthermia; Brown adipose tissue; Thermoregulation; Non-shivering thermogenesis (Shibata, M.) **436**, 273

Cardiac pain

Thalamus; Nociception: Nucleus ventralis posterolateralis; Viscerosomatic convergence; Cat (Taguchi, H.) **436**, 240

Cardiovascular

Amygdala; Classical conditioning; Emotion (Iwata, J.) **418**, 183

Cardiovascular control

α_2 -Adrenergic receptor; Quantitative autoradiography; Spontaneously hypertensive rat; Essential hypertension; Blood pressure regulation (Gehlert, D.R.) **409**, 308

Cardiovascular reflex

Exercise; Lactate; Skin afferent; Muscle afferent (Gregory, J.E.) **404**, 375

Cardiovascular regulation

Paramedian reticular nucleus; Spinal cord; Horseradish peroxidase; Fluorescent dye; Axonal branching; Intermediolateral nucleus (Elisevich, K.) **408**, 227

Cardiovascular signal

Vasoconstriction; Sympathetic nervous system; Pituitary; Brainstem; Periaqueductal gray; Dorsal rostral pons (Ward, D.G.) **407**, 369

Cardiovascular system

Locus coeruleus; Noradrenergic neuron; Stress (Morilak, D.A.) **422**, 24

Carotid body

Light transmittance; Hypoxia; Cyanide (Acker, H.) **409**, 380

Carotid occlusion

Cytochrome *aa*₃ redox state; Cortical oxidative metabolism; Cortical blood volume; Reflectance spectrophotometry; Cortical window; Unanesthetized animal (Vern, B.A.) **415**, 188

Castration

Adenylate cyclase; Cyclic adenosine 3',5'-phosphate (AMP); Gonadal steroid; Hippocampus (Harrelson, A.) **404**, 89

Spinal nucleus of the bulbocavernosus; Genotype; House mouse; Motoneuron; Strain difference; Androgen (Wee, B.E.F.) **424**, 305

Cat

Cochlear nucleus; Dorsal column nucleus; Spinal trigeminal nucleus; Wheat germ agglutinated horseradish peroxidase (WGA-HRP) (Itoh, K.)

400, 145

Aging; Caudate nucleus; Neurophysiology; Basal ganglion; Substantia nigra (Levine, M.S.) **401**, 213

Thermal inhibition; Pain; Nociceptor-driven (Kanui, T.I.) **402**, 160

Locus coeruleus; Spinal motoneuron; Excitatory postsynaptic potential (EPSP); Input resistance; Membrane excitability; Electrical stimulation (Fung, S.J.) **402**, 230

Cholera toxin; Retrograde tracer; Nucleus raphe pallidus; Hypothalamus; Peptide (Luppi, P.-H.) **402**, 339

Corticostriatal projection; Autoradiography; Evoked potential; Topographic organization; Motor cortex (Updyke, B.V.) **402**, 365

Superior colliculus; Somatosensory; Direction sensitivity; Tactile (Clemo, H.R.) **405**, 313

Choline acetyltransferase; Immunohistochemistry; Cholinergic neuron (Stichel, C.C.) **405**, 395

Prefrontal cortex; Mediodorsal nucleus; Ventromedial nucleus; Thalamocortical projection (Martínez-Moreno, E.) **407**, 17

Spinal cord; Intra-axonal staining; Immunocytochemistry; Primary afferent fiber; γ -Aminobutyric acid; Presynaptic inhibition (Maxwell, D.J.) **408**, 308

Striatum; Putamen; Caudate nucleus; Spinal trigeminal nucleus; Nociception; Wheat germ agglutinin-horseradish peroxidase (WGA-HRP); Horseradish peroxidase (HRP) (Yasui, Y.) **408**, 334

Spinal cord; Lesion; Monoamine; Neurotransmitter (Casey, K.L.) **408**, 377

Ponto-geniculo-occipital (PGO); Sleep; Unit activity; Lateral geniculate nucleus; Development (Davenne, D.) **409**, 1

Nucleus of the optic tract; Inferior olive; γ -Aminobutyric acid; Horseradish peroxidase; Tetramethylbenzidine; Monkey; Rat (Horn, A.K.E.) **409**, 133

Glutamic acid decarboxylase; Light microscopy; Glutamine synthetase; Electron microscopy; γ -Aminobutyric acid (GABA); Area postrema; Immunocytochemistry (D'Amelio, F.E.) **410**, 232

Spinal dorsal horn neuron; Nociception; Descending inhibition; Diffuse noxious inhibitory control (Morton, C.R.) **410**, 347

Creutzfeldt-Jakob disease; Sleep; REM sleep; Ponto-geniculo-occipital

wave; Neuropathological change; Raphé lesion (Gourmelon, P.) **411**, 391

Climbing fiber projection; Cerebellar cortex; Midbrain; Nucleus of Darkschewitsch (Jeneskog, T.) **412**, 185

Visual cortex; Corpus callosum; Binocular interaction; Stereopsis; Disparity-sensitive neuron; Depth perception; Nasotemporal overlap; Ocular dominance (Gardner, J.C.) **413**, 60

Directionally selective ganglion cell; Starburst amacrine cell; Cholinergic neuron; Retina; Rabbit (Famiglietti, E.V.) **413**, 404

Eye movement; Monocular movement; Frontal eye field; Oculomotor area; Coronal sulcus; Anterior ectosylvian sulcus (Nakai, M.) **414**, 91

Desynchronized sleep; Pontine tegmentum; Acetylcholine; Carbachol; Microinjection (Baghdoyan, H.A.) **414**, 245

Delta-sleep-inducing peptide (DSIP); Single intracerebroventricular injection; Sleep-wake activity (Šušić, V.) **414**, 262

L-Cysteine-sulphinat; L-Aspartate; N-Methyl-D-aspartate; Quisqualate; Kainate; Iontophoresis; Membrane potential; Caudate; Excitatory amino acid (Turski, W.A.) **414**, 330

Neuropeptide Y; Distribution; Spinal cord; Autonomic nucleus; Colchicine (Krukoff, T.L.) **415**, 300

Corticovestibular projection; Uvula; Nodulus; Zone (Shojaku, H.) **416**, 100

Frontal eye field; Precruciate cortex; Presylvian cortex; Gyrus proreus; Prefrontal cortex; Paramedian pontine reticular formation; Oculomotor system; Horseradish peroxidase (Leichnetz, G.R.) **416**, 195

Calcitonin gene-related peptide; Substance P; Quinolinic acid; Kainic acid; Striatum; Immunohistochemistry (Sugimoto, T.) **418**, 392

Retina; Visual cortex; Lateral geniculate nucleus; Pulvinar; Immunohistochemistry; Peptide (Bliss Tieman, S.) **420**, 188

Pretectum; Dorsal lateral geniculate nucleus; Retina; Retinotopic map; Wheat germ agglutinin-horseradish peroxidase (WGA-HRP) (Kubota, T.) **421**, 30

Tooth pulp; Nociception; Trigeminal subnucleus interpolaris; Conditioning stimulation; Naloxone (Pertovaara, A.) **422**, 205

Paramedian pontine reticular formation; Brainstem afferent; Horseradish peroxidase; Oculomotor system; Eye movement

- Leichnetz, G.R.) **422**, 389
- Neuroanatomic tracing; Lateral cervical nucleus; Ultrastructure; Spinal afference (Svensson, B.A.) **423**, 229
- Sensory nerve fiber; Sensory receptor; Vagus nerve; Lower esophageal sphincter; Wheat germ agglutinin-horseradish peroxidase; Axonal anterograde transport (Clerc, N.) **424**, 216
- Enkephalin; Substance P; Immunohistochemistry; Immunofluorescence; Coexistence; Spinal cord (Tashiro, T.) **424**, 391
- Evoked potential; Amygdala kindling; Systemic penicillin epilepsy; Ventral lateral thalamus; Motor cortex; Sleep-wake cycle (Shouse, M.N.) **425**, 198
- Membrane potential dependence; Postsynaptic potential; Cerebral cortex; Lingual nerve; Inferior alveolar nerve; Hypoglossal motoneuron (Takata, M.) **426**, 358
- Regulation of respiration; Ventral medulla; Glutamate; Phrenic nerve; Arterial pressure (Lawing, W.L.) **435**, 322
- Respiration; Neural; Intracellular; Spinal cord (Duffin, J.) **435**, 351
- Horseradish peroxidase; Wheat germ agglutinin; Anterograde degeneration; Electron microscopy; Substantia nigra; Superior colliculus; Spinal cord (Tokuno, H.) **436**, 76
- Cardiac pain; Thalamus; Nociception; Nucleus ventralis posterolateralis; Viscerosomatic convergence (Taguchi, H.) **436**, 240
- Somatosensory cortex; Pyramidal tract neuron; Layer V pyramidal neuron; Intracellular horseradish peroxidase (Yamamoto, T.) **437**, 369
- Otolith; Semicircular canal; Off-vertical-axis rotation; Vestibulo-ocular reflex; Optokinetic nystagmus; Velocity store (Harris, L.R.) **437**, 393
- Cat bladder ganglion**
Parasympathetic neuron; Intracellular recording; Postganglionic stimulation; Slow synaptic hyperpolarization (Kumamoto, E.) **435**, 403
- Cat brain**
[³H]Leucine; [³H]Proline; Protein synthesis; Differential labeling (Elam, J.S.) **413**, 129
- Cat neocortex**
Area 18; Single neuron; Diffuse receptive field (Albus, K.) **410**, 199
- Cat spinal cord**
Baclofen; Phaclofen; Guinea pig ileum (Kerr, D.I.B.) **405**, 150
- Cat visual cortex**
Acetylcholine; Nicotine; Lateral geniculate nucleus; Receptor; Binding site (Prusky, G.T.) **412**, 131
- Catalase**
Nerve regeneration; Chamber model; Laminin; Testosterone; Ganglioside (Müller, H.) **413**, 320
- Catalepsy**
Single electroconvulsive shock (ECS); Chronic electroconvulsive shock; Dynorphin; β -Endorphin; Analgesia (Lasoñ, W.) **403**, 301
- Zona incerta-lateral hypothalamus; Morphine; Muscular rigidity; Electromyogram; PicROTOXIN; Bicuculline methiodide (Wardas, J.) **408**, 363
- Thalamus; Baclofen; δ -Aminovalerate; Muscimol; Bicuculline (Wüllner, U.) **422**, 129
- α -Kainic acid; γ -D-Glutamylamino-methylsulphonic acid; Substantia nigra; Caudate-putamen; Muscle tone; Turning; Electromyogram; 6-Hydroxydopamine; Ibotenic acid (Turski, L.) **424**, 37
- Catch tension**
Peptide; Pedal ganglion; *Mytilus*; Anterior byssus retractor muscle (ABRM); Relaxation; Inhibition (Hirata, T.) **422**, 374
- Catching**
Stretch reflex; Adaptation; Anticipation; Antagonist coactivation (Lacquaniti, F.) **406**, 373
- Catecholamine**
Circumventricular organ; Subcommissural organ; Aldosterone; Sodium excretion; Eating; Drinking behavior (Dundore, R.L.) **401**, 122
- α_1 -Adrenoceptor; α_2 -Adrenoceptor; β -Adrenoceptor; Distribution; [³H]Prazosin; [³H]Idazoxan; [³H]Dihydroalprenolol (Diop, L.) **402**, 403
- Dopamine; Noradrenaline; Amine accumulation; 6-Hydroxydopamine; Neurochemical specificity (Willis, G.L.) **403**, 15
- Norepinephrine; Anteroventral third cerebral ventricle (AV3V); Dopamine; Angiotensin II; Drinking; Blood pressure; 6-Hydroxydopamine (Bellin, S.I.) **403**, 105
- Angiotensin II; Synaptosome; Release (Bottiglieri, D.F.) **403**, 167
- Norepinephrine; Isoproterenol; Parietal cortex; Prostaglandin; Leukotriene (Busija, D.W.) **403**, 243
- Estrogen receptor; Norepinephrine; Noradrenergic system; Prazosin; Hypothalamus; Progesterone receptor (Blaustein, J.D.) **404**, 39
- Estrogen receptor; Norepinephrine; Noradrenergic system; Yohimbine; Phenylephrine; Clonidine; Hypothalamus; α_2 -Noradrenergic receptor (Blaustein, J.D.) **404**, 51
- Vasopressin; Renin; Blood pressure; Thirst; Urinary water excretion (Davis, B.J.) **405**, 1
- 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP); Neurotoxicity; Substantia nigra; Mice (Sundström, E.) **405**, 26
- Neurotransmitter; Aging; Salmon (Ebbesson, S.O.E.) **405**, 175
- Corticotropin-releasing hormone (CRF); Adrenocorticotrophic hormone (ACTH); Reserpine; Hypothalamus (Suda, T.) **405**, 247
- Monoamine; Serotonin; *Hermisenda*; Gastropod (Croll, R.P.) **405**, 337
- Enkephalin; Chronic; Nicotine; Guinea pig; Adrenal gland (Hexum, T.D.) **406**, 370
- Cell body; Diencephalon; Distribution; Fetus; Histo fluorescence method (Su, H.-S.) **409**, 367
- Immunocytochemistry; Adrenaline; Brainstem; Ultrastructure; C₁ area (Milner, T.A.) **411**, 28
- Immunocytochemistry; L-Glutamate decarboxylase; Adrenaline; Brainstem; C₁ area (Milner, T.A.) **411**, 46
- Calcium gluconate; Arginine vasopressin; Hypothalamus; Vasopressinergic neuron; Blood pressure (Benetos, A.) **412**, 182
- Neural transplant; Synapse; Immunocytochemistry; Ultrastructure (Silverman, W.F.) **412**, 375
- γ -Aminobutyric acid; Coexistence; Plasticity; Immunohistochemistry; Olfactory bulb (Kosaka, T.) **413**, 197
- Salsolinol; Ethanol; Acetaldehyde; Rat brain; Gas chromatography-mass spectrometry (GC/MS) (Matsubara, K.) **413**, 336
- Sympathetic preganglionic neuron; Slow synaptic potential; Spinal cord; Potassium conductance (Yoshimura, M.) **414**, 138
- Neural transplant; Adrenal medulla; Vascular permeability; Blood-brain barrier; Macromolecule (Rosenstein, J.M.) **414**, 192
- Alzheimer's disease; Neocortex; Dopamine; Noradrenaline; Acetylcholine; Human brain (Palmer, A.M.) **414**, 365
- Drinking; Blood pressure; Angiotensin II; Angiotensin-induced thirst; Pressor response (Bellin, S.I.) **416**, 75
- Acetylcholinesterase; Basal ganglion; Dopamine; Huntington's disease;

Immunohistochemistry (Ferrante, R.J.) **416**, 141

Ciliary ganglion; Dopamine; Tyrosine hydroxylase; Immunohistochemistry; Fluorescence histochemistry; Mammal (Uemura, Y.) **416**, 200

Locus coeruleus; Amphetamine; Learning and memory; Epinephrine (Holdefer, R.N.) **417**, 108

Serotonin; Uric acid; High-pressure liquid chromatography; Electrochemical detection; Rat spinal cord (Basbaum, A.I.) **419**, 229

Sympathetic neuron; Slow synaptic potential; Spinal cord; Potassium conductance (Yoshimura, M.) **419**, 383

Autonomic; Baroreceptor reflex; Blood pressure; Microiontophoresis; Nucleus tractus solitarius; Single unit (Feldman, P.D.) **420**, 351

Orchidectomy; Testosterone; Serotonin; Hypothalamus; Cerebral cortex; Spinal cord (Battaner, E.) **425**, 391

Estrogen receptor; Noradrenaline; Noradrenergic system; Yohimbine; Hypothalamus; Pituitary gland; α_2 -Noradrenergic receptor (Blaustein, J.D.) **436**, 253

Catecholamine metabolism

Ventrolateral medulla; In vivo electrochemistry; Central nervous system cardiovascular control; Hemorrhagic shock; Controlled hypotension; Clonidine; Rat (Gillon, J.-Y.) **418**, 157

A1-cell group; Caudal ventrolateral medulla; In vivo voltammetry; Baroreceptor reflex; Vasomotor center; Central cardiovascular control; Rat (Quintin, L.) **425**, 319

Catecholamine release

Calcium antagonist; Calcium channel; Chirality; Dihydropyridine receptor; Adrenal medulla (Fonteriz, R.I.) **408**, 359

Catecholamine turnover

p-Chlorophenylalanine (PCPA); Serotonin (5-HT); 5-Hydroxyindoleacetic acid (5-HIAA); Noradrenaline; Dopamine; Estrogen; Luteinizing hormone (LH) surge (Burri, R.) **416**, 267

Catecholaminergic pathway

A₁ cell group; Adrenocorticotropin; Hemorrhage; Ventrolateral medulla; Electrolytic lesion; Vasopressin (Carlson, D.E.) **406**, 385

Catfish

Facial nerve; Taste; Electrophysiology; Amino acid; Feeding (Kanwal, J.S.) **406**, 105

Taste; Amino acid; Transduction (Brand, J.G.) **416**, 119

Cathodal stimulation

Strength-duration; Spreading depression; Rat cortex (Reid, K.H.) **404**, 361

Cation

Acetylcholine receptor; Receptor metabolism; Lithium; Skeletal muscle; Phosphoinositide; Calcium (Pestronk, A.) **412**, 302

Caudal ventrolateral medulla

A1-cell group; Catecholamine metabolism; In vivo voltammetry; Baroreceptor reflex; Vasomotor center; Central cardiovascular control; Rat (Quintin, L.) **425**, 319

Caudate

BALB/c mouse strain; CBA mouse strain; Substantia nigra zona compacta; Ventral tegmental area; Met-Enkephalin; Micropunch; Radioimmunoassay (Sanghera, M.K.) **412**, 200

L-Cysteine-sulphinat; L-Aspartate; N-Methyl-D-aspartate; Quisqualate; Kainate; Iontophoresis; Membrane potential; Excitatory amino acid; Cat (Turski, W.A.) **414**, 330

Caudate nucleus

Aging; Neurophysiology; Basal ganglion; Substantia nigra; Cat (Levine, M.S.) **401**, 213

Aged cat; Neurophysiology; Chronic recording; Reduced excitability (Levine, M.S.) **405**, 389

Nicotine; Dopamine metabolism; Substantia nigra lesion; Reverse tolerance; Nucleus accumbens; Hypothermia; Stereotypy (Lapin, E.P.) **407**, 351

D-1 dopamine receptor; Substantia nigra; [¹²⁵I]SCH 23982 (Yamamoto, T.) **407**, 398

Striatum; Putamen; Spinal trigeminal nucleus; Nociception; Wheat germ agglutinin-horseradish peroxidase (WGA-HRP); Horseradish peroxidase (HRP); Cat (Yasui, Y.) **408**, 334

Striatum; Basal ganglia; [¹⁴C]Deoxyglucose; Glucose utilization; Apomorphine; Dopamine (Brown, L.L.) **411**, 65

Somatostatin; Neuropeptide Y; Amphetamine; Dopamine; Push-pull perfusion (Tatsuoka, Y.) **411**, 200

Dopamine; Dopamine receptor; Haloperidol; Intracellular recording; Slice (Akaike, A.) **418**, 262

1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP); 1-Methyl-4-phenylpyridinium ion (MPP⁺); Dopamine; 3,4-Dihydroxyphenylacetic acid (DOPAC); Push-pull perfusion; Parkinsonism (Chang, G.D.) **424**, 49

Passive avoidance behavior; Anti-vasopressin serum; Noradrenaline utilization; Hippocampus, dorsal; Hippocampus, ventral; Septum, dorsolateral (Veldhuis, H.D.) **425**, 167

Substantia nigra pars compacta; Striatum; Putamen; Striosome; Acetylcholinesterase; Dopamine; Tyrosine hydroxylase (Jimenez-Castellanos, J.) **437**, 349

Caudate-putamen

Cholecystokinin; Dopamine; Cerebral cortex; Acetylcholine; γ -Aminobutyric acid; Leucine enkephalin (Gysling, K.) **407**, 110

Quantitative autoradiography; Dopamine receptor; Brain dopamine; Substantia nigra; Nucleus accumbens; Olfactory tubercle (Aiso, M.) **408**, 281

Corticotropin releasing factor; Gastric acid; Paraventricular nucleus; Ventromedial nucleus; Lateral hypothalamus (Gunion, M.W.) **411**, 156

Epilepsy; Bicuculline methiodide; Kindling (Cavalheiro, E.A.) **411**, 370

Cholecystokinin (CCK); Cholecystokinin release; Lithium; Inositol phospholipid; Cerebral cortex (Gysling, K.) **413**, 365

Anesthetized rat; Bursting activity; Scrotal skin temperature; Temperature information (Taylor, D.C.M.) **419**, 352

Gastrin; Hypothalamus; Ventromedial nucleus; Lateral hypothalamus; Brain; Microinfusion; Gastric secretion (Gunion, M.W.) **422**, 118

α -Kainic acid; γ -D-Glutamylaminomethylsulphonic acid; Substantia nigra; Muscle tone; Catalepsy; Turning; Electromyogram; 6-Hydroxydopamine; Ibotenic acid (Turski, L.) **424**, 37

Neutral endopeptidase; Opioid receptor; Globus pallidus; Substantia nigra; Kainic acid; Colchicine; 6-Hydroxydopamine (Waksman, G.) **436**, 205

CBA mouse strain

BALB/c mouse strain; Substantia nigra zona compacta; Ventral tegmental area; Caudate; Met-Enkephalin; Micropunch; Radioimmunoassay (Sanghera, M.K.) **412**, 200

CDNA probe

Astroglia; Glial fibrillary acidic protein (GFA-protein); In-situ hybridization; Immunohistochemistry; Regional difference of GFA-protein; Heterogeneity of astroglia (Kitamura, T.) **423**, 189

Celiac ganglion

Bombesin; Stomach; Retrograde labeling; Immunohistochemistry (Hamaji, M.) **416**, 192

Cell

Hippocampal; Electroencephalography (EEG); State; Theta-on; Theta-off (Colom, L.V.) **422**, 277

Cell body

Catecholamine; Diencephalon; Distribution; Fetus; Histofluorescence method (Su, H.-S.) **409**, 367

Cell body reaction

Regeneration; Target specificity (Burmeister, D.W.) **423**, 56

Cell count

Neuronal number; Strain difference; Neuronal cell death (Boss, B.D.) **406**, 280

Cell culture

Neurotoxicity; Cytotoxicity; Dextrorphan; Opiate; Dextromethorphan; Glutamate; Cortex (Choi, D.W.) **403**, 333

Supraoptic neuron; Voltage clamp; Na-current; Ba-current (Cobbett, P.) **409**, 175

Prostaglandin E₂; Corticotropin releasing factor; Adrenocorticotropin; Pituitary (Sobel, D.O.) **411**, 102

Astrocyte; Barium; Ion homeostasis; Glial cell (Walz, W.) **412**, 405

Retinal neuron; Vasoactive intestinal polypeptide; Retina-muscle synapse; Cholinergic transmission (Fukuda, M.) **414**, 177

Quinolate; Quinolinic acid; *N*-Methyl-D-aspartate (NMDA) receptor; Electrophysiology; Excitatory amino acid; Cortex (Peters, S.) **420**, 1

Central nervous system neuron; Neuronal marker; Terminal differentiation; Immunocytochemistry; Monoclonal antibody (Wu, D.K.) **421**, 186

Myenteric neuron; Rat; Co-transmitter; Acetylcholine; Vasoactive intestinal peptide; Somatostatin (Willard, A.L.) **422**, 163

Hypoxia; Anoxia; Astrocyte; Neuron-specific enolase; Glutamate; γ -D-Glutamylglycine (Vibulsreth, S.) **422**, 303

Spinal cord neuron; Phencyclidine (PCP); Tetraethylammonium (TEA); 4-Aminopyridine (4-AP); Potassium channel; Voltage clamp; Action potential (Aguayo, L.G.) **436**, 9

Neurotoxicity; Cytotoxicity; Homocysteic acid; Homocysteate; Cortical neuron; *N*-Methyl-D-aspartate (NMDA); Excitatory amino acid; Glutamate (Kim, J.P.) **437**, 103

Cell death

Fluorescent tracer; Neuronal plasticity (Chen, K.S.) **410**, 154

Cell degeneration

Aging; Parkinson's disease;

Neurotoxicity; Dopamine; Substantia nigra (Ricaurte, G.A.) **403**, 43

Cell group x

Vestibular nucleus; Choline acetyltransferase; Cell group z; Nucleus prepositus (Carpenter, M.B.) **418**, 403

Cell group z

Vestibular nucleus; Choline acetyltransferase; Cell group x; Nucleus prepositus (Carpenter, M.B.) **418**, 403

Cell interaction

Photoreceptor; Müller cell; Opsin; Monoclonal antibody; Immunocytochemistry; Electron microscopy (Akagawa, K.) **437**, 298

Cell marker enzyme

Monoclonal antibody; 2':3'-Cyclic nucleotide 3'-phosphodiesterase (CNase); Oligodendrocyte; Schwann cell; Wolfram protein fraction (Sprinkle, T.J.) **426**, 349

Cell membrane expansion

Tissue culture; Dorsal root ganglion; Neuron; Inhibition of action potential; 2-Decenoic acid; Fatty acid; Adult mouse (Horie, H.) **411**, 298

Cell migration

Mouse; Oligodendrocyte; Myelination; Intracerebral transplantation; Shiverer model (Baulac, M.) **420**, 39

Cell proliferation

Endogenous opioid; Opioid receptor; Cerebellum; Naltrexone; Methionine-enkephalin; Growth; Autoradiography (Zagon, I.S.) **412**, 68

Cell swelling

Cytotoxic edema; Cytoplasmic pH; Na⁺/H⁺ exchange; Glioma cell; Astrocyte; Amiloride (Jakubovic, D.E.) **435**, 138

Cell-surface antigen

Retinal bipolar cell; Subpopulation; Monoclonal antibody; MAh 5A10; Frog; Vertebrate (Onoda, N.) **416**, 359

Cell-type-specific marker

Immunocytochemistry; Developmental neurobiology (Ventimiglia, R.) **436**, 339

Cellular binding

Astrocyte; Protease nexin I (Rosenblatt, D.E.) **415**, 40

Cellular resolution

2-Deoxyglucose; Autoradiography; Neuron; Glial cell (Duncan, G.E.) **401**, 43

Central amygdala

Neurotensin; Stress ulcer; Dopamine (Ray, A.) **409**, 398

Mammillary body; Benzodiazepine; Antianxiety action; Conflict behavior; Rat (Kataoka, Y.) **416**, 243

Central amygdaloid nucleus

Renal function; Conscious rats; Hypertension; Environmental stress; α -

and β -Adrenoceptors (Koepke, J.P.) **404**, 80

Central benzodiazepine receptor

Progesterone; Peripheral benzodiazepine binding site; [³H]Flunitrazepam; [³H]PK 11195 (Gavish, M.) **409**, 386

Central cardiovascular control

A1-cell group; Caudal ventrolateral medulla; Catecholamine metabolism; In vivo voltammetry; Baroreceptor reflex; Vasomotor center; Rat (Quintin, L.) **425**, 319

Central depression

Grayanotoxin; Muscle relaxation; Tetrodotoxin; Locomotor activity (Ohgaki, T.) **425**, 364

Central dopaminergic activity

Quinpirole (LY171555); Dopamine D₂ agonist; Presynaptic regulatory mechanism; DOCA/NaCl hypertension; High performance liquid chromatography (HPLC) (Chen, Y.-F.) **413**, 15

Central nervous system

Regeneration; Laminin; Growth factor; Immunoreactive site (Zak, N.B.) **408**, 263

Schwann cell; Mitosis; Remyelination (Harrison, B.M.) **409**, 163

Autoradiography; Hypothalamus; Heart; Receptor (Henke, H.) **410**, 404

Locus coeruleus; Blood pressure; Heart rate; Vasopressin; Glutamate; 6-Hydroxydopamine (Sved, A.F.) **414**, 119

Shiverer mouse; Na⁺, K⁺-ATPase; Myelin-associated glycoprotein; Immunocytochemistry; Myelin; Trigeminal nerve (Sheedlo, H.J.) **415**, 105

Somatostatin; Kindling; Brain; Neuropeptide (Pitkänen, A.) **416**, 180

Neuron-specific enolase; Monoclonal antibody (Frikke, M.J.) **417**, 283

Mast cell-degranulating peptide (MCD); Behavior; Electroencephalography; Binding; Hippocampus; Seizure; Theta rhythm (Bidard, J.-N.) **418**, 235

Nerve regeneration; Conditioned media (Lavie, V.) **419**, 166

Vanadate; Vanadyl; Insulin; Glucose transport; Hyperglycemia; Autonomic nervous system; Mouse (Amir, S.) **419**, 392

Central nervous system (CNS)

Electrophysiology; Cortex; Olfaction; Field potential; Interdependence; Correlation (Bressler, S.L.) **409**, 285

Electrophysiology; Cortex; Olfaction; Field potential; Modelling; Transmission (Bressler, S.L.) **409**, 294

Rat skeletal muscle; Na^+ , K^+

Transport; Deoxycorticosterone acetate (DOCA) hypertension; Denervation (Nagaoka, R.) **410**, 283

Rabbit; Myelin sheath; Ranvier's node; Marchi staining; Density gradient centrifugation (Corneliusson, O.) **416**, 43

Central nervous system (CNS) reorganization

Neural plasticity; Sprouting; Age-at-lesion effect; Thalamus; Motor cortex; Hemispherectomy (Villablanca, J.R.) **410**, 219

Central nervous system cardiovascular control

Ventrolateral medulla; Catecholamine metabolism; In vivo electrochemistry; Hemorrhagic shock; Controlled hypotension; Clonidine; Rat (Gillon, J.-Y.) **418**, 157

Central nervous system cell culture
Glutamine synthetase; Brain development (Aizenman, Y.) **414**, 301

Central nervous system explant

Glial cell; Neurite outgrowth; Insect; Electron microscopy (Vanheems, E.) **411**, 129

Central nervous system neuron

Neuronal marker; Cell culture; Terminal differentiation; Immunocytochemistry; Monoclonal antibody (Wu, D.K.) **421**, 186

Central nervous system plasticity

Cortical transplant; Suprachiasmatic nuclei lesion; Diurnal rhythms (García-Hernández, F.) **418**, 193

Central pattern generator

Compensatory eye movement; Tadpole; Frog; Larva (Stehouwer, D.J.) **410**, 264

Bursting neuron; Oscillation; Potassium current; Stomatogastric ganglion; Lobster (Harris-Warrick, R.M.) **416**, 381

Central respiratory drive

Sympathetic preganglionic neuron; Aortic nerve; Respiration; Phrenic nerve; Rat (Numao, Y.) **401**, 190

Central serotonergic neuron

γ -Aminobutyric acid (GABA); Progabide; Glucose utilization; [^{14}C]2-Deoxyglucose technique; Muscimol (Cudennec, A.) **423**, 162

Central somatostatin

Growth hormone; Phenoxylbenzamine; Picrotoxin; Naloxone (Murakami, Y.) **407**, 405

Central synapse

Hemicholinium-3; Presynaptic receptor; Acetylcholine; Quantal release (Poulain, B.) **435**, 63

Central transmitter release

Chronic cathodal lesion; Noradrenergic neuron; 6-Hydroxydopamine; Blood pressure response; Heart rate response;

Rabbit (Korner, P.I.) **435**, 258

Centrally mediated hypoglycemia

Insulin; Insulin derivative; Insulin receptor; Lipogenesis; Mouse (Amir, S.) **418**, 152

Centrifugal visual system

Bird; Isthmo-optic nucleus; Visual Wulst; Visual cortex (Uchiyama, H.) **406**, 322

Raptor (Weidner, C.) **436**, 153

Cerebellar astrocyte

Culture condition and morphology; Quantitation of β -adrenergic receptor; Intact cell and membrane (Voisin, P.J.) **404**, 65

Cerebellar cortex

Climbing fiber; Purkinje cell; Arm movement; Primate; Motor behavior (Wang, J.-J.) **410**, 323

[^3H]Flunitrazepam; Benzodiazepine receptor subtype; Human (Faull, R.L.M.) **411**, 379

Climbing fiber projection; Midbrain; Nucleus of Darkschewitsch; Cat (Jeneskog, T.) **412**, 185

Interposed nucleus; Simple spike; Purkinje cell; Cross-correlation (McDevitt, C.J.) **425**, 1

Interposed nucleus; Climbing fiber afferent; Complex spike; Simple spike; Purkinje cell (McDevitt, C.J.) **425**, 14

Deep cerebellar nucleus; Glutamic acid decarboxylase; Climbing fiber; Purkinje cell; Motor behavior; Behavioral recovery; Inferior olive; 3-Acetylpyridine (Sukin, D.) **426**, 82

Cerebellar explant

Astrocyte; Synaptic density; Electron microscopy; Cytosine arabinoside (Meshul, C.K.) **402**, 139

Cerebellar glomerulus

γ -Aminobutyric acid; Glycine; Serotonin; Choline; Acetylcholine (Morales, E.) **420**, 11

Cerebellar inhibition

Kainic acid; Inferior olive (Batini, C.) **403**, 186

Cerebellar neuron

Patch-clamp; Glutamate; Aspartate (Cull-Candy, S.G.) **402**, 182

Granule cell; Imipramine uptake; Lysosome; Primary culture (Novelli, A.) **411**, 291

Spatial response area; Bat; Space representation (Sun, X.) **414**, 314

Cerebellar Purkinje cell

Progesterone; Sex steroid; γ -Aminobutyric acid (GABA); Glutamate; Neuromodulation; Neuronal responsiveness; Anxiolytic action (Smith, S.S.) **400**, 353

Estrogen; Glutamate; Evoked excitation; Neuromodulation

(Smith, S.S.) **422**, 40

Progesterone; Estrogen; γ -Aminobutyric acid; Glutamate; Neuronal responsiveness; Neuromodulation; Anxiolytic (Smith, S.S.) **422**, 52

Cerebellar Purkinje neuron

Glutamate; Spontaneous activity; Development; Fetal alcohol syndrome; Chronic ethanol (Yool, A.J.) **420**, 205

Cerebellorubral transmission

Rubrospinal neuron; Facilitation (Gorodnov, V.L.) **410**, 340

Cerebellum

Classical conditioning; Eyelid response; Neural plasticity; Brainstem; Lesion; Learning; Rabbit (Mauk, M.D.) **403**, 89

Adenosine antagonist; Adenosine agonist; Hippocampus; Glutamate; Transmitter release; Excitatory postsynaptic potential (EPSP) (Prestwich, S.A.) **405**, 130

Dendrite; Neurofilament; Immunohistochemistry (Shiurba, R.A.) **407**, 205

Purkinje cell degeneration; Mutant mouse; Spontaneous alternation; Habituation (Lalonde, R.) **411**, 187

Endogenous opioid; Opioid receptor; Naltrexone; Methionine-enkephalin; Growth; Autoradiography; Cell proliferation (Zagon, I.S.) **412**, 68

Magnetoencephalography; Neuromagnetism; Biomagnetism; Magnetic evoked field; Turtle; Purkinje cell (Okada, Y.C.) **412**, 151

Midbrain reticular stimulation; Flocculus; Vestibular nucleus; 2-Deoxyglucose; Learning (Gonzalez-Lima, F.) **412**, 275

Noradrenaline; In vivo electrochemistry; Potassium-evoked release; Nomifensine; Rat (Gerhardt, G.A.) **413**, 327

Climbing fiber; Mossy fiber; Inferior olivary nucleus; Locomotor activity; Cyclic guanosine monophosphate (McCaslin, P.P.) **414**, 381

Calcitonin gene-related peptide; Development; Immunohistochemistry; Rat (Kubota, Y.) **415**, 385

Opioid; Development; Cerebral cortex; Hippocampus; Dentate gyrus (Hauser, K.F.) **416**, 157

Superior colliculus; Medial accessory olive; Climbing fiber response; Lobulus simplex; Rat (Akaike, T.) **417**, 371

Pseudocholinesterase; Nodulus; Uvula; Sagittal zone; Purkinje cell; Bergmann glia (Gorenstein, C.) **418**, 68

Map formation; Synapse elimination; Climbing fiber (Mulle, C.) **421**, 194

- Map formation; Synapse elimination; Climbing fiber; X-irradiation (Mariani, J.) **421**, 211
- Glutamate; Immunocytochemistry; Electron microscopy (Clements, J.R.) **421**, 343
- Red nucleus; Kindling; Epilepsy; Mesencephalic lesion (Paz, C.) **422**, 99
- N*-Acetylaspartylglutamate (NAAG); Dipeptide; Neuroexcitant; Purkinje cell (Sekiguchi, M.) **423**, 23
- Aging; In oculo brain graft; Norepinephrine; Electrophysiology; In vivo electrochemistry (Granholm, A.-C.) **423**, 71
- Electrosensory lateral line lobe; Amino acid; Glutamate; Aspartate; γ -Aminobutyric acid; Taurine; Glycine (Nadi, S.) **425**, 218
- Photoaffinity labeling. β -Adrenergic receptor; Synaptic membrane; Cerebral cortex; Glycoprotein; Radioligand binding (Lautens, L.L.) **426**, 401
- Cyclic guanosine monophosphate (cGMP); Climbing fiber; 3-Acetylpyridine; Purkinje cell; Simple spike; Complex spike (Oltmans, G.A.) **437**, 183
- Thiamin; Thiamin deficiency; Ouabain; (Na^+/K^+)-ATPase; Hypothalamus (Matsuda, T.) **437**, 375
- Excitatory amino acid; Receptor; Magnesium ion; *N*-Methyl-D-aspartate (NMDA); Quisqualate; Purkinje cell (Sekiguchi, M.) **437**, 402
- Cerebral arterial spasm**
Hippocampal slice; Thromboxane B_2 ; Blood serum (Cach, R.) **414**, 1
- Cerebral artery**
Pentobarbital; Femoral artery; Ca^{2+} movement (Sanchez-Ferrer, C.F.) **411**, 304
- Cerebral blood flow**
Acetylcholine release; Atropine sulfate; Cerebral cortex; Vasodilation; Fastigial nucleus (Arnerić, S.P.) **411**, 212
- Heat stress; 5-Hydroxytryptamine level; Blood-brain barrier permeability; *p*-Chlorophenylalanine; Indomethacin; Diazepam; Cyproheptadine; Vinblastine (Sharma, H.S.) **424**, 153
- Cerebral ischemia; Gerbil; Immunohistochemistry; Quantitative autoradiography (Matsumoto, M.) **424**, 231
- Cerebral blood flow (CBF)**
Delayed vasospasm; Angiography; Cerebral metabolic rate of oxygen (CMRO_2); Carbon dioxide reactivity; Autoregulation; Calcium antagonist (Sahlin, C.) **403**, 313
- Cerebral blood flow autoregulation**
 α -Melanocyte-stimulating hormone; γ -Melanocyte-stimulating hormone (Sandor, P.) **424**, 189
- Cerebral blood vessel**
Sympathetic nerve; Superior cervical ganglion; Pineal gland; Wheat germ agglutinin-horseradish peroxidase (WGA-HRP) (Tamamaki, N.) **437**, 387
- Cerebral circulation**
Sleep; Regional blood flow; Microsphere (Lenzi, P.) **415**, 14
- Pial vessel; Endothelium; Acetylcholine; Choline acetyltransferase (ChAT); Cholinergic innervation (Hamel, E.) **420**, 391
- Cerebral cortex**
Serotonin; Substance P; Neuromedin K; Release; Spantide (Solti, M.) **401**, 377
- Acute ethanol; Hippocampus; Striatum; Calcium channel (Rius, R.A.) **402**, 359
- Cholinesterase; Cingulate gyrus; Limbic system; Non-specific nucleus; Thalamocortical projection (Robertson, R.T.) **404**, 282
- Spreading depression (SD); Slow potential change; Cyclic adenosine monophosphate (cAMP); Rat (Gorelova, N.A.) **404**, 379
- Cholecystokinin; Caudatoputamen; Dopamine; Acetylcholine; γ -Aminobutyric acid; Leucine enkephalin (Gysling, K.) **407**, 110
- Acetylcholine release; Nucleus basalis; Nucleus basalis of Meynert; Alzheimer's disease (Gardiner, I.M.) **407**, 263
- Neurite outgrowth; Tetrodotoxin; Fetal neuron (Van Huizen, F.) **408**, 271
- Nicotine; Chronic treatment; Muscarinic receptor; High-affinity site; Carbamylcholine (Yamanaka, K.) **409**, 395
- Parvalbumin; Ca^{2+} binding protein; Fast spiking neuron; Cholecystokinin; Somatostatin; γ -Aminobutyric acidergic system; Local circuit neuron (Kosaka, T.) **409**, 403
- Acetylcholine release; Atropine sulfate; Vasodilation; Cerebral blood flow; Fastigial nucleus (Arnerić, S.P.) **411**, 212
- Cholecystokinin (CCK); Cholecystokinin release; Lithium; Inositol phospholipid; Caudate-putamen (Gysling, K.) **413**, 365
- Haloperidol; Brainstem; Adrenoceptor; Muscarinic receptor; GABA $_A$ receptor; Benzodiazepine receptor (Pazo, J.H.) **414**, 405
- Opioid; Development; Cerebellum; Hippocampus; Dentate gyrus (Hauser, K.F.) **416**, 157
- Ro 5-4864; Benzodiazepine; Adenosine; Neuron (Phillis, J.W.) **416**, 171
- Ethanolamine; Phosphoethanolamine; Alzheimer's disease; Huntington's disease; Striatum (Ellison, D.W.) **417**, 389
- Parvalbumin; Immunocytochemistry; Postmortem brain; Alzheimer's disease; Senile dementia (Arai, H.) **418**, 164
- Electrogenic pump; Extracellular K^+ ; Glial cell; Na^+/K^+ -ATPase; Epilepsy (Onozuka, M.) **420**, 259
- Muscarinic cholinergic receptor; Carbamylcholine; Inositol phosphate; Pirenzepine; AF-DX 116 (Smith, T.L.) **420**, 362
- 2-Deoxyglucose; Autoradiography; Hippocampus; Thalamus; Piracetam; Scopalamine; Rat (Piercey, M.F.) **424**, 1
- Synapse; Aging; Plasticity; Human (Adams, I.) **424**, 343
- Orchidectomy; Testosterone; Catecholamine; Serotonin; Hypothalamus; Spinal cord (Battaner, E.) **425**, 391
- Somatostatin; Ultrastructure; Immunohistochemistry (Mizukawa, K.) **426**, 28
- Membrane potential dependence; Postsynaptic potential; Lingual nerve; Inferior alveolar nerve; Hypoglossal motoneuron; Cat (Takata, M.) **426**, 358
- Photoaffinity labeling. β -Adrenergic receptor; Synaptic membrane; Cerebellum; Glycoprotein; Radioligand binding (Lautens, L.L.) **426**, 401
- Adenosine; Pertussis toxin; Acetylcholine; Adenosine 5'-*N*-ethylcarboxamide; Rat (O'Regan, M.H.) **436**, 380
- Hippocampus; Noradrenergic innervation; 6-Hydroxydopamine; Antidepressant drug; Learned helplessness; Escape failure; Rat (Soubrie, P.) **437**, 323
- Cerebral endothelium**
Blood-brain barrier; Glial induction (Maxwell, K.) **410**, 309
- Blood-brain barrier; Glycoconjugate; Lectin; Cultured cell; Protein blot (Fatehi, M.I.) **415**, 30
- Cerebral glucose utilization**
Morphine; Oxymorphone; Nalbuphine; Opioid receptor; Analgesia; Thalamus; Nucleus of the spinal tract of the trigeminal nerve (Fanelli, R.J.) **422**, 257
- Cerebral hypoxia**
Brain oxygen supply; Seizure; Status epilepticus; Pulmonary edema; Cytochrome oxidase (cytochrome a, a_3) (Kreisman, N.R.) **417**, 335

Cerebral ischemia

Autoradiography; Adenosine receptor; Hippocampus; Muscarinic receptor; Septal nucleus; Striatum (Onodera, H.) **415**, 309

Cerebral blood flow; Gerbil; Immunohistochemistry; Quantitative autoradiography (Matsumoto, M.) **424**, 231

Embolism; Microsphere; Stroke model; Pharmacology; Cyproheptadine (Zivin, J.A.) **435**, 305

Cerebral metabolic rate of oxygen (CMRO₂)

Delayed vasospasm; Angiography; Cerebral blood flow (CBF); Carbon dioxide reactivity; Autoregulation; Calcium antagonist (Sahlin, C.) **403**, 313

Cerebral metabolism

Positron emission tomography; Auditory stimulation (Kushner, M.J.) **409**, 79

Cerebrospinal fluid

Serotonin receptor; Phosphoinositide hydrolysis; Choroid plexus; Serotonergic denervation; 5-HT-1c receptor (Conn, P.J.) **400**, 396

Allopurinol; Uric acid; Xanthine oxidase; Oxipurinol (Kim, P.) **402**, 87

Cholecystokinin; Multiple sclerosis; Neuropeptide; Radioimmunoassay (Bryld, E.) **409**, 364

Oxytocin; Paraventricular nucleus; Postejaculatory interval; Sexual behavior (Hughes, A.M.) **414**, 133

1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP); Parkinson's disease; African Green monkey; Ventral tegmental area; Mesolimbic; Nigrostriatal; Dopamine; Homovanillic acid; 3-Methoxy-4-hydroxyphenylglycol (MHPG) (Elsworth, J.D.) **415**, 293

Choroid plexus; Chloride; Membrane transport; Cyclic AMP; Bullfrog; Intracellular ion activity (Saito, Y.) **417**, 267

Circadian rhythm; Sleep; Vasopressin; Vasoactive intestinal polypeptide (Kruisbrink, J.) **419**, 76

Valproic acid; Anticonvulsant; Biogenic amine metabolite; Lactic acid; Organic acid transport (MacMillan, V.) **420**, 268

Rhesus monkey; Corticotrophin-releasing hormone; Diurnal rhythm; Adrenocorticotrophic hormone (ACTH) (Kalin, N.H.) **426**, 385

Cerebrospinal fluid (CSF)

Alzheimer's disease; Somatostatin; Cholinergic system; Post-mortem tissue; Pathogenesis (Reinikainen, K.J.) **402**, 103

Cysteamine; Somatostatin;

Norepinephrine; Dopamine; Memory; Activity; Rat (Haroutunian, V.) **403**, 234

Cholecystokinin octapeptide; Cholecystokinin receptor antagonist; Feeding behavior; Dog; Blood-brain barrier (Inui, A.) **417**, 355

Anesthesia; CSF hormone; Arginine vasopressin (AVP); Angiotensin II (A II); Conscious animal; Hormone transport into CSF (Simon-Oppermann, C.) **424**, 163

Cerebrospinal fluid amino acid
Isoniazid; Pyridoxine; Huntington's disease; Cerebrospinal fluid γ -aminobutyric acid (Manyam, B.V.) **408**, 125

Cerebrospinal fluid formation
Blood-cerebrospinal fluid barrier breakdown; Cholera toxin (Hyman, S.) **419**, 104

Cerebrospinal fluid potassium
Rat; Plasma hyperkalemia; Choroid plexus; Quantitative stereology; Mitochondrion; Apical microvillus; Cerebrospinal fluid secretion (Keep, R.F.) **413**, 45

Cerebrospinal fluid secretion
Rat; Plasma hyperkalemia; Choroid plexus; Quantitative stereology; Mitochondrion; Apical microvillus; Cerebrospinal fluid potassium (Keep, R.F.) **413**, 45

Cerebrospinal fluid sodium concentration (CSF [Na])
Drinking; Dehydration; Inhibition; CSF osmolality (Osborne, P.G.) **412**, 36

Cerebrospinal fluid transport
Nerve growth factor receptor; Basal forebrain; Cholinergic neuron; Cholinergic basal forebrain; Monoclonal antibody (Schweitzer, J.B.) **423**, 309

Cerebrospinal fluid vasopressin
Intracranial pressure; Vasopressin; Oxytocin; Blood pressure; Goat (Seckl, J.R.) **423**, 279

Cerebrospinal fluid γ -aminobutyric acid
Isoniazid; Pyridoxine; Huntington's disease; Cerebrospinal fluid amino acid (Manyam, B.V.) **408**, 125

Cerebrovascular circulation
Atrial natriuretic peptide; Atriopeptin I; Atriopeptin II; Pial arteriole; Immunohistochemistry (Macrae, I.M.) **435**, 195

Cerebrovascular disease
Stretch reflex; Co-ordination; Electromyogram (EMG) (Di Fabio, R.P.) **406**, 43

Cerebroventricular system
Relaxin; Oxytocin; Reflex milk-ejection; Rat; Hypothalamus

(O'Byrne, K.T.) **405**, 80

Cervical afferent

Cervico-ocular reflex; Eye-head orientation; Otolithic receptor; Plasticity of the cervico-ocular reflex; Rabbit (Pettorossi, V.E.) **403**, 58

Cervical sympathetic trunk

White ramus; Sympathetic ganglion; Postganglionic cardiac nerve; Evoked potential (Szulczyk, A.) **421**, 127

Cervico-ocular reflex

Cervical afferent; Eye-head orientation; Otolithic receptor; Plasticity of the cervico-ocular reflex; Rabbit (Pettorossi, V.E.) **403**, 58

Chamber model

Nerve regeneration; Laminin; Testosterone; Ganglioside; Catalase (Müller, H.) **413**, 320

Characterization

Phenylethanolamine
N-methyltransferase; Isozyme; Adrenal; Bovine (Wong, D.L.) **410**, 32

Chemoconvulsion

1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP); Electroshock; Mouse (Fariello, R.G.) **426**, 373

Chemosensory receptor

Lectin; Glycoprotein; Olfactory cilia; Western blotting (Kalinoski, D.L.) **418**, 34

Chemotherapy

Adriamycin; Blood-brain barrier; Disruption; Mannitol; Neurotoxicity; Rat (Kondo, A.) **412**, 73

Chick

Protease inhibitor; Leupeptin; Memory; Learning; Conditioned avoidance (Davis, J.L.) **406**, 10

γ -Aminobutyric acid (GABA); Vestibular end organ (Usami, S.-I.) **418**, 383

Chick and pigeon retina

Visinin; Calcium-binding protein; Calbindin D-27 kDa; Western blotting; Immunohistochemistry (Pasteels, B.) **412**, 107

Chick cerebellum

N-Acetylasparylglutamate; Aspartate; Glutamate; Cultured neuron; Antagonist; Intracellular recording (Mori-Okamoto, J.) **401**, 60

Chick ciliary ganglion

Ciliary ganglion; Presynaptic nerve terminal; Calyx synapse; Synapse structure; Lucifer yellow (Stanley, E.F.) **421**, 367

Chick embryo

Kappa-bungarotoxin; Neuronal nicotinic receptor; Autonomic pharmacology; Ciliary ganglion; Sympathetic ganglion; α -Bungarotoxin (Chiappinelli, V.A.) **402**, 21

Chicken

Acetylcholinesterase; Histochemistry; Immunohistochemistry; Retina; Ultrastructure (Millar, T.J.) **421**, 297

Chicken retina

Enkephalin; Dopamine; Opiate receptor; 6-Hydroxydopamine (Su, Y.Y.T.) **423**, 63

Chirality

Calcium antagonist; Calcium channel; Dihydropyridine receptor; Catecholamine release; Adrenal medulla (Fonteriz, R.I.) **408**, 359

Chloride

Choroid plexus; Membrane transport; Cerebrospinal fluid; Cyclic AMP; Bullfrog; Intracellular ion activity (Saito, Y.) **417**, 267

Brain cortex; Kainic acid; Neurotoxicity; Pyknosis; Swelling; Calcium; Cytoskeleton (Berdichevsky, E.) **423**, 213

Chloride channel

γ -Aminobutyric acid (GABA); Lactotroph; Prolactin; GABA_A receptor; Patch clamp (Inenaga, K.) **405**, 159

Chloride current

Frog sensory neuron; γ -Aminobutyric acid; Calcium current; Internal perfusion; Concentration-clamp technique (Inoue, M.) **404**, 301

Chloride ion channel

γ -Aminobutyric acid receptor; $^{36}\text{Cl}^-$ flux; Synaptoneurosome; Stress; Rat brain (Schwartz, R.D.) **411**, 151

Chloride-channel

Astrocyte; γ -Aminobutyric acid (GABA); GABA_A-receptor; Neurotransmitter; Rat (Kettenmann, H.) **404**, 1

Chlorotetracycline

Kytorphin; Met-enkephalin releaser; Ca^{2+} mobilization (Ueda, H.) **419**, 197

Chlorpromazine

Calcium; Calmodulin; Neuromuscular junction; Transmitter release (Sahaf, Z.Y.) **437**, 397

p-Chlorophenylalanine

Heat stress; 5-Hydroxytryptamine level; Blood-brain barrier permeability; Cerebral blood flow; Indomethacin; Diazepam; Cyproheptadine; Vinblastine (Sharma, H.S.) **424**, 153

Serotonin; Analgesia; Nociception; Raphe nucleus; Dorsal spinal cord; Motoneuron; Electrochemical detection (Steinman, J.L.) **426**, 297

p-Chlorophenylalanine (PCPA)

Serotonin (5-HT); 5-Hydroxyindoleacetic acid (5-HIAA); Catecholamine turnover; Noradrenaline; Dopamine; Estrogen; Luteinizing hormone (LH) surge

(Burri, R.) **416**, 267

Cholecalciferol (28 kDa CaBP)

Hippocampal formation; Mossy fiber; Pyramidal cell; Rat; Guinea pig; Hedgehog (Rami, A.) **422**, 149

Cholecystokinin

Hippocampus; Commissural-associational system; Rat; Mouse; Immunocytochemistry (Fredens, K.) **401**, 68

Forebrain; Hamster; Hypothalamus; Paraventricular nucleus; Suprachiasmatic nucleus (Miceli, M.O.) **402**, 318

Enkephalin; Neuropeptide; Opioid; Nociception; Periaqueductal gray matter; Neurotransmitter coexistence (Gall, C.) **403**, 403

Stereotyped behavior; Apomorphine; Neurotensin; Dopamine; Nucleus accumbens (Blumstein, L.K.) **404**, 293

Dopamine; Electrophysiology; Apomorphine; Freely moving rat; Midbrain (Freeman, A.S.) **405**, 46

Substance P; Calcitonin gene-related peptide; Eye; Sensory innervation; Trigeminal ganglion; Guinea pig; Cholera toxin B subunit; Retrograde axonal transport; Immunohistochemistry (Kuwayama, Y.) **405**, 220

γ -Aminobutyric acid; Glutamate; Diazepam; Picrotoxin; Kynurenic acid (Yaksh, T.L.) **406**, 207

Caudatoputamen; Dopamine; Cerebral cortex; Acetylcholine; γ -Aminobutyric acid; Leucine enkephalin (Gysling, K.) **407**, 110

Monosodium glutamate; Bipiperidyl mustard; Ventromedial hypothalamus; Paraventricular nucleus; Insulin; Hyperphagia; Feeding; Obesity (Scallet, A.C.) **407**, 390

Cerebrospinal fluid; Multiple sclerosis; Neuropeptide; Radioimmunoassay (Bryld, E.) **409**, 364

Parvalbumin; Ca^{2+} binding protein; Fast spiking neuron; Somatostatin; γ -Aminobutyric acidergic system; Local circuit neuron; Cerebral cortex (Kosaka, T.) **409**, 403

Morphine; Analgesia; Tolerance; Dependence; Proglumide; Benzotript (Panerai, A.E.) **410**, 52

Proglumide; Dopamine; Electrophysiology; Iontophoresis; Neuromodulation (Chiodo, L.A.) **410**, 205

Met-enkephalin; Leu-enkephalin; Substance P; Dopamine; Postmortem; Human brain; Progressive supranuclear palsy (Taquet, H.) **411**, 178

Receptor; Vagus; Satiety (Moran, T.H.) **415**, 149

Benzotript; Proglumide; Antagonist; Hippocampal slice (Jaffe, D.B.) **415**, 197

Ventral tegmental area; Dopamine; Electrophysiology; Co-transmitter; In vitro slice (Brodie, M.S.) **425**, 106

Oxytocin; Grooming behavior; Coexistence (Kaltwasser, M.-T.) **426**, 1

Thalamus; Ventroposterolateral nucleus; Immunocytochemistry; Dorsal column nucleus (Hunt, C.A.) **426**, 257

Area postrema; Apomorphine; Lithium chloride; Oxytocin; Arginine-vasopressin (Carter, D.A.) **435**, 327

Cholecystokinin (CCK)

Hippocampus; Cholecystokinin (CCK) antagonist; Neuropeptide (MacVicar, B.A.) **406**, 130

Cholecystokinin release; Lithium; Inositol phospholipid; Caudate-putamen; Cerebral cortex (Gysling, K.) **413**, 365

Cholecystokinin (CCK) antagonist

Cholecystokinin (CCK); Hippocampus; Neuropeptide (MacVicar, B.A.) **406**, 130

Cholecystokinin octapeptide

Cholecystokinin receptor antagonist; Feeding behavior; Dog; Blood-brain barrier; Cerebrospinal fluid (CSF) (Inui, A.) **417**, 355

Cholecystokinin receptor antagonist

Cholecystokinin octapeptide; Feeding behavior; Dog; Blood-brain barrier; Cerebrospinal fluid (CSF) (Inui, A.) **417**, 355

Cholecystokinin release

Cholecystokinin (CCK); Lithium; Inositol phospholipid; Caudate-putamen; Cerebral cortex (Gysling, K.) **413**, 365

Hypothalamus; Satiety; Primate; Push-pull perfusion (Schick, R.R.) **418**, 20

Cholera toxin

Retrograde tracer; Nucleus raphe pallidus; Hypothalamus; Peptide; Cat (Luppi, P.-H.) **402**, 339

Blood-cerebrospinal fluid barrier breakdown; Cerebrospinal fluid formation (Hyman, S.) **419**, 104

Cholera toxin B subunit

Substance P; Calcitonin gene-related peptide; Cholecystokinin; Eye; Sensory innervation; Trigeminal ganglion; Guinea pig; Retrograde axonal transport; Immunohistochemistry (Kuwayama, Y.) **405**, 220

Cholesterol

Filipin; Membrane fluidity; Intramembranous particle (IMP); Axolemma; Myelination; Lipid domain (Fields, R.D.) **404**, 21

Unmyelinated fiber; Filipin;
Freeze-fracture (Allt, G.) **416**, 166

Cholesterol ester crystal

Human brain; Anterograde degeneration; Degenerated myelin; Polarizing microscopy; Macrophage; Tract tracing (Miklossy, J.) **426**, 377

Choline

Acetylcholine; Septum; Cholinergic neuron; Slice culture; Hemicholinium-3; High affinity choline uptake (Keller, F.) **405**, 305

Cerebellar glomerulus; γ -Aminobutyric acid; Glycine; Serotonin; Acetylcholine (Morales, E.) **420**, 11

Choline acetyltransferase; Alzheimer's disease; Steady-state kinetics (Nordström, Ö.) **420**, 371

Brain; Nicotinic receptor; α -Bungarotoxin; Rat (Morley, B.J.) **421**, 21

Choline acetyltransferase

Fetal transplants; Frontal cortex; Acetylcholinesterase; Cytochrome oxidase; Morphology (Mufson, E.J.) **401**, 162

Alzheimer's disease; Neocortex; Serotonin; 5-Hydroxyindoleacetic acid; Noradrenaline; 3-Methoxy-4-hydroxyphenylglycol; Dopamine; Dihydroxyphenylacetic acid; Homovanillic acid (Palmer, A.M.) **401**, 231

Rabbit retina; Glutamate decarboxylase; Immunocytochemistry; Acetylcholinesterase; Dendritic stratification (Brandon, C.) **401**, 385

Immunohistochemistry; Cholinergic neuron; Cat (Stichel, C.C.) **405**, 395

Nucleus basalis; Somatostatin; Noradrenaline; 5-Hydroxytryptamine; Neocortex; Excitotoxin; Alzheimer's disease (Fine, A.) **406**, 326

Immunohistochemistry; Sensory neurone; Locust; Acetylcholine (Lutz, E.M.) **407**, 173

Abducens nucleus; Leucine enkephalin; Olivocochlear bundle; Periolivary nucleus; Superior olivary complex; Vestibular efferent neuron (Carpenter, M.B.) **408**, 275

Immunohistochemistry; Horseradish peroxidase; Basal forebrain; Thalamus (Steriade, M.) **408**, 372

Parasympathetic; Neurotrophic; Ciliary; Lung (Wallace, T.L.) **411**, 351

Capillary; Endothelial cell; Rat brain (González, J.L.) **412**, 148

Horseradish peroxidase; Immunocytochemistry; Lateral dorsal tegmental nucleus; Basal ganglion (Beninato, M.) **412**, 169

Acetylcholinesterase; Substance P;

Somatostatin (Martínez, H.J.) **412**, 295

Nucleus basalis cell; Tyrosine hydroxylase; Immunohistochemistry; Co-localization; Ferret (Henderson, Z.) **412**, 363

Tyrosine hydroxylase; Rat neostriatum; Immunohistochemistry; Electron microscopy (Kubota, Y.) **413**, 179

Frog; Immunohistochemistry; Nucleus isthmi; Optic tectum; *Rana pipiens* (Desan, P.H.) **413**, 344

Cholinergic neuron; Starburst amacrine cell; Immunocytochemical staining; Retina; Rabbit (Famiglietti, E.V.) **413**, 398

Hypothalamus; Immunohistochemistry; Tuber cinereum; Primate; Rat (Tago, H.) **415**, 49

Acetylcholinesterase; Aging; Mouse; Diaphragm; Limb muscle (Washio, H.) **416**, 69

Autoradiography; Differentiation; Cognition; Neuroblastoma; Transplantation (Kordower, J.H.) **417**, 85

Chronic bombesin; [3 H]Sipiperone binding; Glutamate decarboxylase; Rat brain; Acetylcholinesterase (Hsu, L.L.) **417**, 232

Excitotoxin; Nucleus basalis; Neurotoxicity; Quinolinic acid (Boegman, R.J.) **417**, 315

Acetylcholine; Interpeduncular nucleus; Medial habenula; Fasciculus retroflexus; Cytochrome oxidase; Plasticity (Eckenrode, T.C.) **418**, 273

Interpeduncular nucleus; Fasciculus retroflexus; Substance P; Serotonin; Cytochrome oxidase; Bodian stain; Plasticity; Development (Barr, G.A.) **418**, 301

Vestibular nucleus; Cell group x; Cell group z; Nucleus prepositus (Carpenter, M.B.) **418**, 403

Dissociated cell culture; Spinal cord; Motoneuron; Mouse; Glutamic acid decarboxylase (Guthrie, P.B.) **420**, 313

Alzheimer's disease; Steady-state kinetics; Choline (Nordström, Ö.) **420**, 371

Excitotoxin; Glutamate decarboxylase; Anteromedian nucleus; Benzodiazepine binding site; Rat striatum (Benavides, J.) **421**, 167

Thyroid deficiency; Regional development; Subcortical cholinergic cell; Rehabilitation (Patel, A.J.) **422**, 182

Edinger-Westphal nucleus; Anteromedian nucleus; Oculomotor nucleus; Ciliary ganglion; Immunocytochemistry; Retrograde transport; Double labelling (Strassman, A.) **423**, 293

Acetylcholine; Acetylcholinesterase; Stress; Hippocampus; Hypothalamus (Fatranská, M.) **424**, 109

Rabbit retina; Immunocytochemistry (Brandon, C.) **426**, 119

Choline acetyltransferase (ChAT)

Hippocampus; Acetylcholine; Monoclonal antibody; Immunocytochemistry; Morphometry; Septal lesion; Rat (Matthews, D.A.) **402**, 30

Cerebral circulation; Pial vessel; Endothelium; Acetylcholine; Cholinergic innervation (Hamel, E.) **420**, 391

Choline acetyltransferase (ChAT) activation

Rat hippocampus; Depolarization; Acetylcholine (ACh) release (Carroll, P.T.) **414**, 401

Choline acetyltransferase activity

Colchicine; Hippocampal lesion; Alzheimer's disease; T-maze learning; Glutamate receptor (Nakagawa, Y.) **408**, 57

Choline acetyltransferase immunohistochemistry

Ferret; Visual cortex; Source of cholinergic input; Retrograde transport (Henderson, Z.) **412**, 261

Choline uptake

Ovariectomy; Estradiol; Acetylcholine synthesis; Synaptosome (O'Malley, C.A.) **403**, 389

Cholinergic

Cortex; Somatostatin; Nucleus basalis; Immunohistochemistry; Rat (Mufson, E.J.) **417**, 385

Cholinergic agonist

Amygdala; Amphetamine; Cholinergic antagonist; Motor activity (Gómez, M.N.) **404**, 304

Cholinergic antagonist

Amygdala; Amphetamine; Cholinergic agonist; Motor activity (Gómez, M.N.) **404**, 304

Cholinergic basal forebrain

Nerve growth factor receptor; Cerebrospinal fluid transport; Basal forebrain; Cholinergic neuron; Monoclonal antibody (Schweitzer, J.B.) **423**, 309

Cholinergic development

Neurotrophic factor; Nerve growth factor; Septal explant culture (Bostwick, J.R.) **422**, 92

Cholinergic index

Aging; Rat strain; Dopamine uptake; Stress (Gilad, G.M.) **408**, 247

Cholinergic innervation

Cerebral circulation; Pial vessel; Endothelium; Acetylcholine; Choline acetyltransferase (ChAT) (Hamel, E.) **420**, 391

Cholinergic input

Posterior cingulate cortex; Basal forebrain neuron; Septal nucleus; Theta rhythm; EEG-spike; Pharmacology (Borst, J.G.G.) **407**, 81

Kindling; Afterdischarge; Hippocampus; Entorhinal cortex; Paroxysmal fast wave; Medial septum; Scopolamine (Leung, L.-W.S.) **419**, 173

Cholinergic neuron

Choline; Acetylcholine; Septum; Slice culture; Hemicholinium-3; High affinity choline uptake (Keller, F.) **405**, 305

Choline acetyltransferase; Immunohistochemistry; Cat (Stichel, C.C.) **405**, 395

Choline acetyltransferase; Starburst amacrine cell; Immunocytochemical staining; Retina; Rabbit (Famiglietti, E.V.) **413**, 398

Directionally selective ganglion cell; Starburst amacrine cell; Retina; Cat; Rabbit (Famiglietti, E.V.) **413**, 404

Rat; Aging; Septum; Septo-hippocampal pathway; Single unit recording (Lamour, Y.) **416**, 277

Ibotenic acid; Septum; Hippocampus; Rhythmical slow activity; Urethane; Septohippocampal system; Serotonin (Stewart, D.J.) **423**, 88

Ibotenic acid; Hippocampus; Septum; Active sleep; Quiet sleep; Rhythmical slow activity; Electroencephalogram (Stewart, D.J.) **423**, 101

Nerve growth factor receptor; Cerebrospinal fluid transport; Basal forebrain; Cholinergic basal forebrain; Monoclonal antibody (Schweitzer, J.B.) **423**, 309

Aging; Stress; Septohippocampal system; Pyramidal neuron; Rat strain (Gilad, G.M.) **436**, 311

Cholinergic neurotoxin

AF64A; Learning and memory; Working memory; Acetylcholine; Hippocampus (Chrobak, J.J.) **414**, 15

Cholinergic neurotransmission

Muscarinic acetylcholine receptor; Irreversible muscarinic acetylcholine antagonist; Propylbenzilylcholine mustard (PrBCM); Passive avoidance; Memory deficit; Learning process; Alzheimer's disease (Fukuchi, I.) **400**, 53

Cholinergic nucleus

Rat forebrain; Immunohistochemistry; Development; Degeneration (Sofroniew, M.V.) **411**, 310

Rat forebrain; Immunohistochemistry; Hypertrophy of neurons (Pearson, R.C.A.) **411**, 332

Cholinergic pathway

Nucleus basalis; Primate (Kitt, C.A.) **406**, 192

Hippocampal neuron; Code activation (Colom, L.V.) **410**, 12

Cholinergic system

Alzheimer's disease; Somatostatin; Post-mortem tissue; Cerebrospinal fluid (CSF); Pathogenesis (Reinikainen, K.J.) **402**, 103

Aging; Basal forebrain; Hippocampus; Receptor (Springer, J.E.) **407**, 180

Basal forebrain; Medial septal nucleus; Passive avoidance task; Morris water task; Radial maze task; Learning and memory; Animal model for dementia (Miyamoto, M.) **419**, 19

Cholinergic transmission

Retinal neuron; Vasoactive intestinal polypeptide; Cell culture; Retina-muscle synapse (Fukuda, M.) **414**, 177

Cholinesterase

Cerebral cortex; Cingulate gyrus; Limbic system; Non-specific nucleus; Thalamocortical projection (Robertson, R.T.) **404**, 282

Acetylcholine; Histochemistry; Huntington's disease; Striatum (Ferrante, R.J.) **411**, 162

Chorda tympani

Lingual nerve; Denervation; Taste bud; Fungiform papilla; Hamster (Whitehead, M.C.) **405**, 192

Chorda tympani nerve

Taste; Rat; Single fiber; Ion specificity; Anodal current; Ionic taste stimulus (Ninomiya, Y.) **404**, 350

Chordotonal organ

Proprioception; Reflex; Freely moving animal; Load compensation; Insect (Zill, S.N.) **417**, 195

Choroid plexus

Serotonin receptor; Phosphoinositide hydrolysis; Serotonergic denervation; Cerebrospinal fluid; 5-HT-1c receptor (Conn, P.J.) **400**, 396

Arylsulfatase C; Estrone-sulfate sulfatase; Pineal gland; Hypophysis; Median eminence; Histochemistry (Kawano, J.-I.) **409**, 391

Angiotensinogen; Angiotensin II; Brain; Astrocyte; Neuron; Immunohistochemistry; Rat (Imboden, H.) **410**, 74

Rat; Plasma hyperkalemia; Quantitative stereology; Mitochondrion; Apical microvilli; Cerebrospinal fluid secretion; Cerebrospinal fluid potassium (Keep, R.F.) **413**, 45

Chloride; Membrane transport; Cerebrospinal fluid; Cyclic AMP; Bullfrog; Intracellular ion activity (Saito, Y.) **417**, 267

Chromatolysis

Axon reaction; Lamprey; Spinal cord;

Interneuron; Axonal regeneration; Denervation; Spontaneous synaptic activity (Yin, H.-S.) **421**, 48

Chromatophore lobe

Serotonin; Formaldehyde; Antibody; *Octopus vulgaris* brain; Palliovisceral lobe; Peroxidase-antiperoxidase (PAP) method (Uemura, T.) **406**, 73

Chronic

Enkephalin; Nicotine; Catecholamine; Guinea pig; Adrenal gland (Hexum, T.D.) **406**, 370

Chronic alcohol

Ca²⁺ transport; Ethanol; Synaptic membrane; Na⁺-Ca²⁺ antiporter; Ion transport (Michaelis, M.L.) **414**, 239

Chronic awake cat

Spinal dorsal horn; Wide dynamic range (WDR) neuron; Spontaneous activity (Collins, J.G.) **416**, 34

Chronic bombesin

[³H]Spiperone binding; Glutamate decarboxylase; Choline acetyltransferase; Rat brain; Acetylcholinesterase (Hsu, L.L.) **417**, 232

Chronic cat

Respiration; Sleep waking; Iontophoresis; Glutamate (Foutz, A.S.) **404**, 10

Phorbol ester; Kinase C; Intracellular response; Neocortex (Baranyi, A.) **424**, 396

Chronic cathodal lesion

Noradrenergic neuron; 6-Hydroxydopamine; Central transmitter release; Blood pressure response; Heart rate response; Rabbit (Korner, P.I.) **435**, 258

Chronic diazepam

γ -Aminobutyric acid (GABA)-ergic subsensitivity; Tolerance; Bicuculline; Seizure threshold (Gonsalves, S.F.) **405**, 94

Chronic electroconvulsive shock

Single electroconvulsive shock (ECS); Dynorphin; β -Endorphin; Analgesia; Catalepsy (Lasoń, W.) **403**, 301

Chronic ethanol

Long Sleep mouse; Short Sleep mouse; γ -Aminobutyric acid (GABA); Basket cell; Dentate fascia (Scheetz, A.J.) **403**, 151

Thiamine; Thiamine phosphoester; Nervous system; Compartmental model; Metabolism in vivo (Rindi, G.) **413**, 23

Cerebellar Purkinje neuron; Glutamate; Spontaneous activity; Development; Fetal alcohol syndrome (Yool, A.J.) **420**, 205

Chronic foot shock

Opioid peptide; Spinal cord; Pain (Przewłocki, R.) **413**, 213

Chronic haloperidol

γ -Aminobutyric acid (GABA); GABA receptor; Substantia nigra; Supersensitivity; Microiontophoresis; Glycine (Frey, J.M.) **425**, 73

Chronic neuroleptic treatment

Receptor turnover; Dopamine D_2 -receptor; [3H]Spiperone (Pich, E.M.) **435**, 147

Chronic pain

Hyperalgesia; Capsaicin; Nociception (Simone, D.A.) **418**, 201

Chronic recording

Caudate nucleus; Aged cat; Neurophysiology; Reduced excitability (Levine, M.S.) **405**, 389

Hippocampus; Long-term potentiation; Theta rhythm (Staubli, U.) **435**, 227

Chronic SCH 23390

Light-dark adaptation; D_1 dopamine receptor; [3H]SCH 23390 binding; Dopamine-sensitive adenylate cyclase; Retina (Porceddu, M.L.) **424**, 264

Chronic spinal cord transection

Motoneuron membrane property (Baker, L.L.) **420**, 333

Cutaneous reflex; Excitatory postsynaptic potential; Inhibitory postsynaptic potential (Baker, L.L.) **420**, 340

Chronic stress

Corticosterone; Growth hormone; Thyroid stimulating hormone; Morphine; Endogenous opioid (Armario, A.) **401**, 200

Chronic treatment

Nicotine; Muscarinic receptor; High-affinity site; Cerebral cortex; Carbamylcholine (Yamanaka, K.) **409**, 395

Tryptamine; Receptor binding; Down-regulation; Monoamine oxidase inhibitor; Clorgyline; Frontal/parietal cortex (Martin, L.L.) **419**, 239

Ciliary

Parasympathetic; Neurotrophic; ChAT; Lung (Wallace, T.L.) **411**, 351

Ciliary ganglion

Kappa-bungarotoxin; Neuronal nicotinic receptor; Autonomic pharmacology; Chick embryo; Sympathetic ganglion; α -Bungarotoxin (Chiappinelli, V.A.) **402**, 21

Catecholamine; Dopamine; Tyrosine hydroxylase; Immunohistochemistry; Fluorescence histochemistry; Mammal (Uemura, Y.) **416**, 200

Chick ciliary ganglion; Presynaptic nerve terminal; Calyx synapse; Synapse structure; Lucifer yellow (Stanley, E.F.) **421**, 367

Choline acetyltransferase; Edinger-Westphal nucleus; Anteromedian nucleus; Oculomotor

nucleus; Immunocytochemistry; Retrograde transport; Double labelling (Strassman, A.) **423**, 293

Cimetidine

Intrahypothalamic; Serotonin; Prolactin; Luteinizing hormone (LH) (Kertesz, E.) **413**, 10

Cinanserin

Dorsal horn neuron; C-fiber activation; Serotonergic descending inhibitory system; Methysergide; Nociception (Rivot, J.P.) **403**, 142

Cingulate

Commissural neuron; Associational projection; Intrinsic cortical circuitry (Sripanidkulchai, K.) **406**, 255

Cingulate gyrus

Cerebral cortex; Cholinesterase; Limbic system; Non-specific nucleus; Thalamocortical projection (Robertson, R.T.) **404**, 282

Circadian

Neurotensin; Substance P; Radioimmunoassay (Albers, H.E.) **437**, 189

Circadian rhythm

Biological clock; Acetylcholine; Entrainment; Suprachiasmatic nucleus (Keefe, D.L.) **403**, 308

Parturition; Suprachiasmatic nucleus; Fetus (Reppert, S.M.) **403**, 398

Anisomycin; Protein synthesis; Phase response curve; Oscillator; Hamster (Takahashi, J.S.) **405**, 199

α -Bungarotoxin; Suprachiasmatic nucleus; Receptor autoradiography; Hypothalamus; Light-dark cycle; Acetylcholine (Fuchs, J.L.) **407**, 9

Aging; Enriched environment; Male rat; Morphometry; Suprachiasmatic nucleus; Vasopressin (Roozendaal, B.) **409**, 259

Immunocytochemistry; Intergeniculate leaflet; Neuropeptide Y; Suprachiasmatic nucleus; Ventral lateral geniculate nucleus (Harrington, M.E.) **410**, 275

Aging; Sleep-wakefulness; Period length; Free-running; Rat (Van Gool, W.A.) **413**, 384

Rat; Pineal; *N*-Acetyltransferase; Entrainment (Illnerová, H.) **417**, 167

Cerebrospinal fluid; Sleep; Vasopressin; Vasoactive intestinal polypeptide (Kruisbrink, J.) **419**, 76

Suprachiasmatic nucleus; Pacemaker; Vasopressin; Organ culture (Earnest, D.J.) **422**, 398

Pacemaker coupling; *Bulla gouldiana*; *Aplysia californica*; *Bursatella leachi* plei; Mollusc (Roberts, M.H.) **423**, 286

Nociception; Constant light; Golden hamster (Pickard, G.E.) **425**, 395

Suprachiasmatic nucleus; 2-Deoxyglucose method; Calcium (Shibata, S.) **426**, 332

Circadian rhythm lesion

Suprachiasmatic nucleus; Adrenocorticotrophic hormone (ACTH); Rat (Cascio, C.S.) **423**, 173

Circadian rhythmicity

Suprachiasmatic nucleus; Deoxyglucose; Energy metabolism; Albino rat; Squirrel monkey (Schwartz, W.J.) **424**, 249

Circle of Willis artery

Muscimol; GABA_A receptor; Pial-arachnoid vessel; Autoradiography; Rat (Napoleone, P.) **423**, 109

Circling

Electrical stimulation; Head turn; Body curvature; Refractory period; Summation; Anteromedial cortex; Medial pons (Tehovnik, E.J.) **407**, 240

Asymmetry; Basal ganglia; Dopamine; Hemispheric dominance; Laterality; Striatum (Bracha, H.S.) **411**, 231

Rat; Hypothalamus; Grooming; Digging; Electrical brain stimulation; Discriminant analysis; Mapping (Lammers, J.H.C.M.) **418**, 1

Circling behavior

Honey bee; γ -Aminobutyric acid; Acetylcholine; Muscimol; Picrotoxin; Flaxedil; Nicotine; Lesion (Michelsen, D.B.) **421**, 14

Colchicine; Striatum; Apomorphine; Methamphetamine; Degenerative atrophy (Kamata, K.) **421**, 353

Circumvallate papilla

Von Ebner's gland; Autonomic nervous system; Tongue; Salivary gland; Taste (Gurkan, S.) **419**, 287

Circumventricular organ

Subcommissural organ; Aldosterone; Catecholamine; Sodium excretion; Eating; Drinking behavior (Dundore, R.L.) **401**, 122

Angiotensin II; AV3V area; Quantitative autoradiography; Paraventricular nucleus; Neuropeptide binding site (Plunkett, L.M.) **405**, 205

Atrial natriuretic peptide; Atriopeptin; Atrial natriuretic peptide receptor; Quantitative autoradiography; Hypothalamic nucleus (Kurihara, M.) **408**, 31

¹²⁵I-Angiotensin II binding; Monosodium glutamate; Brain; Rat (Rogulja, I.) **419**, 333

Citalopram

Mianserin; Dopamine release; Adrenoceptor; Nucleus accumbens; Striatum (Russell, V.A.) **410**, 78

Cl⁻-dependent and Ca²⁺-stimulated binding

[³H]Glutamate binding; Ca²⁺ ion; Cl⁻-dependent binding; Anion transport carrier; D-Aspartate; Quisqualic acid; Protease inhibitor (Yoneda, Y.) **400**, 70

Cl⁻-dependent binding

[³H]Glutamate binding; Ca²⁺ ion; Cl⁻-dependent and Ca²⁺-stimulated binding; Anion transport carrier; D-Aspartate; Quisqualic acid; Protease inhibitor (Yoneda, Y.) **400**, 70

Cl⁻ flux

γ-Aminobutyric acid receptor; Chloride ion channel; Synaptoneurosome; Stress; Rat brain (Schwartz, R.D.) **411**, 151

Cl⁻ permeability

S-100 protein; Nerve cell membrane; γ-Aminobutyric acid (GABA) (Hydén, H.) **404**, 405

Classical conditioning

Eyeid response; Neural plasticity; Cerebellum; Brainstem; Lesion; Learning; Rabbit (Mauk, M.D.) **403**, 89
Amygdala; Cardiovascular; Emotion (Iwata, J.) **418**, 183

Collateral sprouting; Red nucleus; Corticorubral synapse; Electron microscopy (Murakami, F.) **437**, 379

Classification

Trayfish; Tritocerebrum; Interneuron; Stimulus coding; Morphology (Tautz, J.) **407**, 230

Clathrin-associated protein

Axonal transport; Coated vesicle; Neuron (Gower, D.J.) **407**, 1

Climbing fiber

Purkinje cell; Cerebellar cortex; Arm movement; Primate; Motor behavior (Wang, J.-J.) **410**, 323

Cerebellum; Mossy fiber; Inferior olivary nucleus; Locomotor activity; Cyclic guanosine monophosphate (McCaslin, P.P.) **414**, 381

Map formation; Cerebellum; Synapse elimination (Mulle, C.) **421**, 194

Map formation; Synapse elimination; Cerebellum; X-irradiation (Mariani, J.) **421**, 211

Deep cerebellar nucleus; Glutamic acid decarboxylase; Cerebellar cortex; Purkinje cell; Motor behavior; Behavioral recovery; Inferior olive; 3-Acetylpyridine (Sukin, D.) **426**, 82

Cyclic guanosine monophosphate (cGMP); 3-Acetylpyridine; Purkinje cell; Cerebellum; Simple spike; Complex spike (Oltmans, G.A.) **437**, 183

Climbing fiber afferent

Cerebellar cortex; Interposed nucleus; Complex spike; Simple spike; Purkinje

cell (McDevitt, C.J.) **425**, 14

Climbing fiber projection

Cerebellar cortex; Midbrain; Nucleus of Darkschewitsch; Cat (Jeneskog, T.) **412**, 185

Climbing fiber response

Cerebellum; Superior colliculus; Medial accessory olive; Lobulus simplex; Rat (Akaike, T.) **417**, 371

Clip injury

Horseradish peroxidase; Cortex; Red nucleus; Inclined plane; Rat (Midha, R.) **410**, 299

Clockwise and counterclockwise direction

Vestibular neuron; Otolith; Head tilt; Slow constant velocity rotation (Chan, Y.S.) **406**, 294

Clonazepam

Benzodiazepine; Substantia nigra; Kindling; Seizure; Anticonvulsant (King, P.H.) **423**, 261

Clonidine

Estrogen receptor; Norepinephrine; Noradrenergic system; Yohimbine; Phenylephrine; Catecholamine; Hypothalamus; α₂-Noradrenergic receptor (Blausein, J.D.) **404**, 51

Isoproterenol; Apomorphine; Thyrotropin secretion; Yohimbine; Propranolol; Phentolamine; Sulpiride (Jaffer, A.) **404**, 267

Rat; Spinal cord; Antinociception; Morphine; Potentiation; Sensory system; Motor system (Wilcox, G.L.) **405**, 84

Separation distress; Separation anxiety; α₂-Adrenergic receptor; Isolation call; Squirrel monkey; Yohimbine (Harris, J.C.) **410**, 353

A₁ neuron; Anodal and cathodal lesion; Methyl dopa; 6-Hydroxydopamine; Rabbit (Head, G.A.) **412**, 18

Ventrolateral medulla; Catecholamine metabolism; In vivo electrochemistry; Central nervous system cardiovascular control; Hemorrhagic shock; Controlled hypotension; Rat (Gillon, J.-Y.) **418**, 157

α₂-Adrenergic receptor; Idazoxan; Pressor area; Spontaneously hypertensive rat; Ventrolateral medulla; Wistar-Kyoto rat (Punnen, S.) **422**, 336

Opiate; Morphine; Naloxone; Opiate withdrawal; Norepinephrine; Skin temperature (Katovich, M.J.) **426**, 55

Adult chronic spinal cat; Yohimbine; Locomotion; Cutaneous reflex; Noradrenaline (Barbeau, H.) **437**, 83

Clorgyline

Tryptamine; Receptor binding; Down-regulation; Monoamine oxidase

inhibitor; Frontal/parietal cortex; Chronic treatment (Martin, L.L.) **419**, 239

CNS electrophysiology

Guinea pig; Respiratory rhythm generation; In vitro preparation; Intracellular recording; Brain perfusion (Richerson, G.B.) **409**, 128

'Lip-CNS' preparation

5,7-Dihydroxytryptamine; Feeding behavior; Aversive conditioning; Intracellular recording (Balaban, P.M.) **404**, 201

Co-occurrence

Cortex; Dorsal ventricular ridge; Basal ganglion; Somatostatin; Neuropeptide Y; Evolution; Turtle (Reiner, A.) **426**, 149

Co-ordination

Stretch reflex; Cerebrovascular disease; Electromyogram (EMG) (Di Fabio, R.P.) **406**, 43

Co-transmitter

Myenteric neuron; Cell culture; Rat; Acetylcholine; Vasoactive intestinal peptide; Somatostatin (Willard, A.L.) **422**, 163

Cholecystokinin; Ventral tegmental area; Dopamine; Electrophysiology; In vitro slice (Brodie, M.S.) **425**, 106

CO₂ production

Glucose; Pyruvate; Oxidation (Tildon, J.T.) **403**, 127

CO₂ reactivity

Hypertension; Vascular reactivity; Hypercapnia; Hypocapnia; Freeze substitution (Yoshida, F.) **412**, 1

Coated vesicle

Axonal transport; Clathrin-associated protein; Neuron (Gower, D.J.) **407**, 1

Cobaltic lysine

Motoneuron; Accessory nerve; Morphology; Distribution; Japanese toad (Oka, Y.) **400**, 383

Preganglionic parasympathetic neuron; Dorsal motor nucleus; Salivatory nucleus; Morphology; Distribution; Japanese toad (Oka, Y.) **400**, 389

Cocaine

Corticotropin-releasing factor (CRF); Adrenocorticotrophic hormone (ACTH); Drug abuse (Rivier, C.) **422**, 403

Cochlea

Met-enkephalin; Lateral olivocochlear system; Noise stimulus; Radioimmunoassay; Guinea pig (Eybalin, M.) **418**, 189

Enkephalin; Morphine; Opioid peptide; Adenylate cyclase; Lateral olivocochlear system; Guinea pig (Eybalin, M.) **421**, 336

Cochlear nucleus

Dorsal column nucleus; Spinal

trigeminal nucleus; Cat; Wheat germ agglutinated horseradish peroxidase (WGA-HRP) (Itoh, K.) **400**, 145

Glycine; Immunocytochemistry; Double labeling; Retrograde labeling (Wenthold, R.J.) **415**, 183

Code activation

Hippocampal neuron; Cholinergic pathway (Colom, L.V.) **410**, 12

Coding

Brain; Spike; Statistical analysis; Triplet; Redundancy (Lestienne, R.) **437**, 214

Coexistence

Dopamine; Tyrosine hydroxylase; γ -Aminobutyric acid; Glutamic acid decarboxylase; Olfactory bulb; Postnatal development; Immunohistochemistry (Kosaka, K.) **403**, 355

Peptide; Immunohistochemistry; Hypothalamus; Medullary raphe nucleus; Spinal cord (Holets, V.R.) **408**, 141

Retina; Enkephalin; γ -Aminobutyric acid; Intracellular recording; On-Off ganglion cell; Larval tiger salamander (Watt, C.B.) **408**, 258

γ -Aminobutyric acid (GABA); Calcitonin gene-related peptide; Purkinje cell; Immunocytochemistry; Rat (Kawai, Y.) **409**, 371

Retrograde fiber tracing; 5-Hydroxytryptamine; Glutamic acid decarboxylase; Bulbospinal projection; Raphe complex; Rat (Millhorn, D.E.) **410**, 179

γ -Aminobutyric acid (GABA); Peptide; Parvalbumin; Immunohistochemistry; Olfactory bulb (Kosaka, T.) **411**, 373

γ -Aminobutyric acid; Catecholamine; Plasticity; Immunohistochemistry; Olfactory bulb (Kosaka, T.) **413**, 197

Thyrotropin-releasing hormone; Serotonin; Substance P; Immunohistochemistry; Intermediolateral cell column; Preganglionic; Sympathetic outflow (Appel, N.M.) **415**, 137

Peptide; Visual cortex; Immunohistochemistry; Rat (Papadopoulos, G.C.) **420**, 95

Enkephalin; Substance P; Immunohistochemistry; Immunofluorescence; Spinal cord; Cat (Tashiro, T.) **424**, 391

Substance P; Enkephalin; Hypothalamus; Rat (Shimada, S.) **425**, 256

Oxytocin; Cholecystokinin; Grooming behavior (Kaltwasser, M.-T.) **426**, 1

Cognition

Autoradiography; Differentiation;

Choline acetyltransferase; Neuroblastoma; Transplantation (Kordower, J.H.) **417**, 85

Colchicine

Hippocampal lesion; Alzheimer's disease; Choline acetyltransferase activity; T-maze learning; Glutamate receptor (Nakagawa, Y.) **408**, 57

Hippocampus; Dentate gyrus; Neurobehavior (Tilson, H.A.) **408**, 163

Neuropeptide Y; Distribution; Cat; Spinal cord; Autonomic nucleus (Krukoff, T.L.) **415**, 300

Tissue culture; Dorsal root ganglion; Neuron; Taxol; Axonal transport; Adult mouse; Microtubule (Horie, H.) **420**, 144

Circling behavior; Striatum; Apomorphine; Methamphetamine; Degenerative atrophy (Kamata, K.) **421**, 353

Hippocampal zinc; Mossy fiber; Depletion; Perikaryal accumulation; Rat brain (Szerdahelyi, P.) **422**, 287

Synaptic plasticity; Conditioning; Intracellular recording; Motor cortex; EGTA (Baranyi, A.) **423**, 378

Neutral endopeptidase; Opioid receptor; Caudate putamen; Globus pallidus; Substantia nigra; Kainic acid; 6-Hydroxydopamine (Waksman, G.) **436**, 205

Cold exposure

Sympathetic nervous system; Bombesin; Dopamine β -hydroxylase; 1-Cyclohexyl-2-mercapto-imidazole; Norepinephrine turnover (Brown, M.) **400**, 35

Collateral projection

Spinomesencephalic; Spinothalamic; Nociception (Yezielski, R.P.) **437**, 165

Collateral sprouting

Regeneration; Motor neurons; Tendon reflex; Plasticity (Ungar-Sargon, J.) **407**, 124

Sensory axon; Hairy skin; Dermatome; Spinal nerve lesion; Wheat germ agglutinin-horseradish peroxidase conjugate; Anterograde transport; Microinjection (Kinnman, E.) **414**, 385

Red nucleus; Corticorubral synapse; Classical conditioning; Electron microscopy (Murakami, F.) **437**, 379

Collateralization

Corticostriate neuron; Motor cortex; Sensory cortex; Double labelling (McGeorge, A.J.) **423**, 318

Collicular commissure

Superior colliculus; Tectospinal cell; Predorsal bundle; Rat; Hamster (Sahibzada, N.) **415**, 242

Collision technique

Ventral root afferent; Refractory period; Dorsal root ganglion cell;

Unmyelinated fiber; Single unit activity (Kim, J.) **417**, 304

Colocalization

Nucleus basalis cell; Tyrosine hydroxylase; Choline acetyltransferase; Immunohistochemistry; Ferret (Henderson, Z.) **412**, 363

Transforming growth factor- α ; Fluoro-Gold; Opioid peptide; Met-enkephalin-Arg-Gly-Leu (MERGL) peptide; Leu-enkephalin peptide; Interpeduncular nucleus; Raphe nucleus (Code, R.A.) **421**, 401

Neuropeptide Y; 5-Hydroxytryptamine; Intracardiac neuron; Dopamine β -hydroxylase; Heart; Tissue culture (Hassall, C.J.S.) **422**, 74

Melanin-concentrating hormone; α -Melanocyte-stimulating hormone; Neurotransmitter (Pelletier, G.) **423**, 247

Rat; Immunohistochemistry; Fiber tracing; Fluoro-Gold dye; Neuropeptide; Bulbospinal system (Millhorn, D.E.) **424**, 99

Columnar organization

Hippocampus; CA₁ pyramidal neuron; Subiculum; Axonal arborization; Horseradish peroxidase (HRP); Computer analysis (Tamamaki, N.) **412**, 156

Combination of HRP and immunohistochemistry

Corticotropin-releasing factor; Lateral hypothalamic area; Zona incerta; Afferents to the inferior colliculus (Sakanaka, M.) **414**, 68

Command neuron

Spinal cord; Regeneration; Lamprey (Currie, S.N.) **415**, 337

Commissural neuron

Cingulate; Associational projection; Intrinsic cortical circuitry (Sripandikulchai, K.) **406**, 255

Commissural-associational system

Hippocampus; Rat; Mouse; Cholecystokinin; Immunocytochemistry (Fredens, K.) **401**, 68

Commissure

Medial septum; Hippocampus; Perforant path; Granule cell; Interneuron; Disinhibition (Bilkey, D.K.) **405**, 320

Commissurotomy

Lateralization; Visual system; Tectal commissure; Pigeon (Güntürkün, O.) **408**, 1

Common carotid artery

Blood flow; Medulla; Reticular formation; Vascular resistance (Kuo, J.S.) **417**, 181

Compartment

Striatum; Opiate receptor; [³H]Thymidine; Development (Van der Kooy, D.) **401**, 155

Dopamine; Electrical stimulation; In vivo voltammetry; Synthesis; Metabolism; Dynamics; Autoreceptor (Michael, A.C.) **421**, 325

Compartmental model

Thiamine; Thiamine phosphoester; Nervous system; Chronic ethanol; Metabolism in vivo (Rindi, G.) **413**, 23

Compartmentation

Microtubule; Neuron; Neurite; Axon; Ribosome (Baas, P.W.) **420**, 73

Compensatory eye movement

Central pattern generator; Tadpole; Frog; Larva (Stehouwer, D.J.) **410**, 264

Complement

Experimental allergic neuritis; Demyelination (Feasby, T.E.) **419**, 97

Complex convolution

Dorsal lateral geniculate nucleus; Rat (Satorre, J.) **404**, 231

Complex spike

Cerebellar cortex; Interposed nucleus; Climbing fiber afferent; Simple spike; Purkinje cell (McDevitt, C.J.) **425**, 14

Cyclic guanosine monophosphate (cGMP); Climbing fiber;

3-Acetylpyridine; Purkinje cell;

Cerebellum; Simple spike

(Oltmans, G.A.) **437**, 183

Complex-spike cell

Hippocampus; θ -Neuron; Pyramidal cell; Interneuron; Noradrenaline; α -Receptor; β -Receptor (Pang, K.) **425**, 146

Compound action potential

Forskolin; Soman; Diaphragm (Bradley, R.J.) **425**, 401

Compound eye

Visual deprivation; Optic lobe; Pattern discrimination; Fly; Behavior (Mimura, K.) **437**, 97

Computer analysis

Columnar organization; Hippocampus; CA₁ pyramidal neuron; Subiculum; Axonal arborization; Horseradish peroxidase (HRP) (Tamamaki, N.) **412**, 156

Computer model

Presaccadic spike potential; Extraocular muscle; Activation pattern (Thickbroom, G.W.) **422**, 377

Computer reconstruction

Dorsal raphe; Non-serotonergic; Intracellular recording; Intracellular horseradish peroxidase; Neuron type (Park, M.R.) **402**, 117

Computer-assisted image analysis

Olfactory glomerulus; Mouse; 2-Deoxyglucose (2-DG) (Royet, J.P.) **417**, 1

Concentration clamp

Frog sensory neuron; Ca current; Ca antagonist; Open channel block (Oyama, Y.) **417**, 143

Synthetic ω -conotoxin; Internal perfusion; Ca²⁺ current (Oyama, Y.) **424**, 58

Concentration-clamp technique

Frog sensory neuron; γ -Aminobutyric acid; Chloride current; Calcium current; Internal perfusion (Inoue, M.) **404**, 301

Conditioned avoidance

Protease inhibitor; Leupeptin; Memory; Learning; Chick (Davis, J.L.) **406**, 10

Conditioned blocking

Dopamine; Noradrenaline; Ventral tegmental area; Septum; Frontal cortex; Attention; Active avoidance (Oades, R.D.) **406**, 136

Conditioned media

Nerve regeneration; Central nervous system (Lavie, V.) **419**, 166

Conditioned medium

Neurite-promoting factor; Goldfish optic nerve; Neuronal cell culture (Finklestein, S.P.) **413**, 267

Nerve growth factor (NGF); L-cell; Binding protein; 7S NGF (Siminoski, K.) **435**, 273

Conditioned place preference

Dopamine; Opioid reward; Microinjection; Morphine; Reward system; Ventral tegmental area (Bozarth, M.A.) **414**, 77

Opiate physical dependence; Withdrawal distress; Naltrexone; Quaternary naltrexone; Morphine pellet; Abstinence motivation (Mucha, R.F.) **418**, 214

Conditioned taste aversion

Taste; Taste nerve; Cortex; Electrophysiology; Taste quality (Yamamoto, T.) **400**, 312

Fetal neural transplant; Grafting; Gustatory neocortex; Amygdala (Bermúdez-Rattoni, F.) **416**, 147

Conditioning

Motor response latency; Associative stimulus; Interstimulus interval (Hirano, T.) **400**, 171

Synaptic plasticity; Intracellular recording; Motor cortex; Colchicine; EGTA (Baranyi, A.) **423**, 378

Periaqueductal gray; Opioid; Opioid receptor; Pain; Nociception; Tolerance (Millan, M.J.) **435**, 97

Conditioning lesion

Fast axonal transport; Nerve regeneration; Protein; Nerve crush; 2D-Gel; Frog (Perry, G.W.) **423**, 1

Conditioning stimulation

Tooth pulp; Nociception; Trigeminal subnucleus interpolaris; Cat; Naloxone (Pertovaara, A.) **422**, 205

Conductance

Ca²⁺ current; Ca²⁺ spike;

Inactivation; Hippocampus; Voltage-clamp; Vertebrate central nervous system (Pitler, T.A.) **410**, 147

Conduction

Acetylcholine; Peripheral nerve; Potassium channel; Neurotransmitter; Cyclic nucleotide; Cyclic guanosine monophosphate (Kendig, J.J.) **435**, 24

Conduction latency

Eastern chipmunk (*Tamias sibiricus asiaticus*); Geniculate relay cell; Spectral response; Receptive field (Wakakuwa, K.) **404**, 211

Conduction velocity

Sympathetic neuron; C-fibre; Axotomy; Autonomic ganglion; Frog (Shapiro, J.) **410**, 186

Cone

Retinomotor movement; Melatonin; Light intensity (Pierce, M.E.) **405**, 400

Conflict behavior

Central amygdala; Mammillary body; Benzodiazepine; Antianxiety action; Rat (Kataoka, Y.) **416**, 243

Connectivity

Embryonic graft; Neostriatum; Transplantation; Horseradish peroxidase; Rat (Walker, P.D.) **425**, 34

Conscious

Respiration; Olfaction; Brainstem; Action potential (Du Pont, J.S.) **414**, 163

Conscious animal

Anesthesia; CSF hormone; Arginine vasopressin (AVP); Angiotensin II (A II); Cerebrospinal fluid (CSF); Hormone transport into CSF (Simon-Oppermann, C.) **424**, 163

Conscious rats

Central amygdaloid nucleus; Renal function; Hypertension; Environmental stress; α - and β -Adrenoceptors (Koepke, J.P.) **404**, 80

Constant light

Nociception; Circadian rhythm; Golden hamster (Pickard, G.E.) **425**, 395

Consummatory behavior

Transplant; Neural graft; Obesity; Ventromedial hypothalamus; Lesion; Hyperphagia; Feeding (Mickley, G.A.) **424**, 239

Contralateral foot-withdrawal

Injury; Hyperalgesia; Neurogenic inflammation; Spinal hyperactivity; C-Fiber afferent; Sympathetic efferent; Autotomy (Coderre, T.J.) **404**, 95

Contralateral retinal afferent

Visual system; Pretectum; Ipsilateral retinal afferent; Directional selectivity (Sperl, M.) **404**, 332

Controlled hypotension

Ventrolateral medulla; Catecholamine metabolism; In vivo electrochemistry; Central nervous system cardiovascular control; Hemorrhagic shock; Clonidine;

Rat (Gillon, J.-Y.) **418**, 157

Convergence

Nucleus of the solitary tract; Gustatory; Anterior tongue; Posterior oral cavity; Hamster; Breadth of responsiveness (Sweazey, R.D.) **408**, 173

Stria terminalis; Action potential; Amygdala; Hypothalamus (Dalsass, M.) **425**, 346

Convulsant

Cyclooxygenase; Mouse brain microsome (Lysz, T.W.) **408**, 6

4-Aminopyridine; Pentylenetetrazole; Transient outward current; Nodose ganglion (Oyama, Y.) **409**, 243

γ -Aminobutyric acid (GABA) receptor; GABA_A receptor blocker; Picrotoxin (TBPS) receptor (Squires, R.F.) **414**, 357

Convulsion

Nerve agent; Soman; O-ethyl-S-(2-diisopropyl-aminoethyl)-methylphosphonothioate (VX); Amygdala; Brain damage; Neuropathology; Excitotoxic; Microinjection (McDonough Jr., J.H.) **435**, 123

Audiogenic seizure; Inferior colliculus; Cyclic AMP; Rat (Ludvig, N.) **437**, 193

Cooling

Prefrontal cortex; Prestriate cortex; Visually initiated hand movement; Monkey (Sasaki, K.) **415**, 362

Copulation

Olfactory bulbectomy; Androgen receptor binding; Amygdala; Hypothalamus (Lumia, A.R.) **404**, 121

Corollary discharge

Somatosensory cortex; Rhesus monkey; Vibration; Movement (Nelson, R.J.) **406**, 402

Coronal sulcus

Eye movement; Monocular movement; Frontal eye field; Oculomotor area; Anterior ectosylvian sulcus; Cat (Nakai, M.) **414**, 91

Corpus callosum

Acallosal brain; Probst's bundle; Callosal development; Anterior commissure; Hippocampal commissure; DdN Strain mouse (Ozaki, H.S.) **400**, 239

Monkey; Somatosensory system; Interhemispheric transfer; Receptive field; Midline fusion (Guillemot, J.-P.) **402**, 293

Visual cortex; Binocular interaction; Stereopsis; Disparity-sensitive neuron; Depth perception; Nasotemporal overlap; Ocular dominance; Cat (Gardner, J.C.) **413**, 60

Lateralization; Inbred mouse (Ward, R.) **424**, 84

Corpus cardiacum

Neurosecretion; Adipokinetic hormone; Octopamine; Cyclic adenosine monophosphate; Calcium; Locust (Pannabecker, T.) **423**, 13

Corpus striatum

γ -Aminobutyric acid (GABA); Tissue culture; Tectum; Tegmentum; Striatonigral neuron; Immunocytochemistry; Synaptic interaction (Shalaby, I.A.) **402**, 68

Progesterone; Dopamine; In vitro; Female rat; Amphetamine (Dluzen, D.E.) **406**, 1

Correlation

Central nervous system (CNS); Electrophysiology; Cortex; Olfaction; Field potential; Interdependence (Bressler, S.L.) **409**, 285

Correlation matrix

Positron emission tomography; Alzheimer's disease; Deoxyglucose; Brain metabolism (Horwitz, B.) **407**, 294

Cortex

Taste; Taste nerve; Electrophysiology; Taste quality; Conditioned taste aversion (Yamamoto, T.) **400**, 312

Neurotoxicity; Cytotoxicity; Dextrophan; Opiate; Dextromethorphan; Glutamate; Cell culture (Choi, D.W.) **403**, 333

Somatostatin; Neuropeptide Y; Monkey; Basal ganglion (Beal, M.F.) **405**, 213

Acetylcholinesterase staining; Alzheimer's disease; Senile plaque; Substantia innominata (Tago, H.) **406**, 363

Human brain; Somatostatin receptor; Subpopulation; Somatostatin-28; SMS 201-995 (Reubi, J.C.) **406**, 391

Axon guidance; Retina; Xenograft; Allograft; Superior colliculus (Hankin, M.H.) **408**, 344

Central nervous system (CNS); Electrophysiology; Olfaction; Field potential; Interdependence; Correlation (Bressler, S.L.) **409**, 285

Central nervous system (CNS); Electrophysiology; Olfaction; Field potential; Modelling; Transmission (Bressler, S.L.) **409**, 294

Single neuron recording; Bimodal neuron; Unimodal neuron; Association cortex (Minciocchi, D.) **410**, 21

Horseradish peroxidase; Red nucleus; Inclined plane; Clip injury; Rat (Midha, R.) **410**, 299

Parietal cortex; Somatosensory cortex; Ablation; Temperature; Discrimination; Lemniscus; Extralemniscal (Porter, L.H.) **412**, 54
 α_2 -Adrenergic receptor; Cyclic

adenosine monophosphate; Striatum; Neuron; Primary culture; Pertussis toxin (Weiss, S.) **414**, 390

Cholinergic; Somatostatin; Nucleus basalis; Immunohistochemistry; Rat (Mufson, E.J.) **417**, 385

Cortico-cortical connection; Area 7b (PF) (Neal, J.W.) **419**, 341

Quinolate; Quinolinic acid; *N*-Methyl-D-aspartate (NMDA) receptor; Electrophysiology; Excitatory amino acid; Cell culture (Peters, S.) **420**, 1

Acetylcholine; Cyclic guanosine monophosphate; Protein kinase; Voltage clamp; Ionic conductance (Woody, C.D.) **424**, 193

Co-occurrence; Dorsal ventricular ridge; Basal ganglion; Somatostatin; Neuropeptide Y; Evolution; Turtle (Reiner, A.) **426**, 149

Cortex (visual)

EEG (spatial pattern); Monkey (rhesus); Perception (visual); Spatial analysis (EEG); Visual cortex (EEG) (Freeman, W.J.) **422**, 267

Cortex slice

Lithium; Depolarization; Synaptosome; K⁺-equilibrium distribution (Adam-Vizi, V.) **410**, 257

Cortical activation

Cortically projecting basal forebrain cell; Pallidal cell; Neuronal firing; Electroencephalogram; Acetylcholinergic system; Anesthetized rat (Détári, L.) **437**, 1

Cortical blood volume

Cytochrome *aa₃* redox state; Cortical oxidative metabolism; Reflectance spectrophotometry; Cortical window; Carotid occlusion; Unanesthetized animal (Vern, B.A.) **415**, 188

Cortical development

Motor cortex; Corticospinal; Intracortical microstimulation (ICMS); Antidromic (Porter, L.L.) **436**, 136

Cortical distribution

Monoamine; Thiamine deficiency; Korsakoff's disease model (Langlais, P.J.) **421**, 140

Cortical neuron

Spike and wave; Penicillin; Generalized epilepsy (Giaretta, D.) **405**, 68

Serotonin; Intracellular; 5-HT₁; 5-HT₂; Depolarization; Hyperpolarization (Davies, M.F.) **423**, 347

Neurotoxicity; Cytotoxicity; Homocysteic acid; Homocysteate; Cell culture; *N*-Methyl-D-aspartate (NMDA); Excitatory amino acid; Glutamate (Kim, J.P.) **437**, 103

Cortical neuron collateral

Transcallosal collateral; Axonal projection; Wheat germ

agglutinin–horseradish peroxidase;
Corticostriatal projection (Ferino, F.)
417, 257

Cortical oxidative metabolism

Cytochrome *aa*₃ redox state; Cortical blood volume; Reflectance spectrophotometry; Cortical window; Carotid occlusion; Unanesthetized animal (Vern, B.A.) **415**, 188

Cortical projection

Magnocellular basal nucleus; Horizontal diagonal band; *Phaseolus vulgaris* leucoagglutinin; Anterograde tracing (Luiten, P.G.M.) **413**, 229

Cortical transplant

Suprachiasmatic nuclei lesion; Diurnal rhythms; Central nervous system plasticity (García-Hernández, F.)
418, 193

Cortical window

Cytochrome *aa*₃ redox state; Cortical oxidative metabolism; Cortical blood volume; Reflectance spectrophotometry; Carotid occlusion; Unanesthetized animal (Vern, B.A.)
415, 188

Cortically projecting basal forebrain cell

Pallidal cell; Neuronal firing; Electroencephalogram; Cortical activation; Acetylcholinergic system; Anesthetized rat (Détári, L.) **437**, 1

Cortico-cortical connection

Cortex; Area 7b (PF) (Neal, J.W.)
419, 341

Corticofugal influence

Red nucleus; Synaptic potential (Fanardjian, V.V.) **425**, 65

Corticorubral synapse

Collateral sprouting; Red nucleus; Classical conditioning; Electron microscopy (Murakami, F.) **437**, 379

Corticospinal

Motor cortex; Cortical development; Intracortical microstimulation (ICMS); Antidromic (Porter, L.L.) **436**, 136

Corticospinal plasticity

Neonatal cortical lesion; Intracortical microstimulation; Pyramidotomy (Kartje-Tillotson, G.) **415**, 172

Corticospinal tract

Arcuate premotor area; Premotor area; Spinal cord (Martino, A.M.) **404**, 307

Corticospinal tract jitter

Human corticospinal tract; Percutaneous stimulation; Individual motor unit response; Spinal monosynaptic transmission (Zidar, J.)
422, 196

Corticosteroid receptor

Immunocytochemistry; Rat brain (Van Eekelen, J.E.A.M.) **436**, 120

Corticosterone

Chronic stress; Growth hormone; Thyroid stimulating hormone;

Morphine; Endogenous opioid (Armario, A.) **401**, 200

Bed nucleus of stria terminalis; Limbic system; Rat (Dunn, J.D.) **407**, 327

Spinal cord; Hippocampus; Glucocorticoid receptor; RNAase A; Dexamethasone; DNA-cellulose binding (Moses, D.F.) **408**, 118

Neuropeptide Y; Hypothalamus; Paraventricular nucleus; Adrenocorticotrophic hormone (ACTH); Desamido-NPY (Wahlestedt, C.) **417**, 33

Aldosterone; Hippocampus; Hypothalamus; Receptor; Mineralocorticoid; Glucocorticoid (Yongue, B.G.) **436**, 49

Corticostriatal projection

Autoradiography; Evoked potential; Topographic organization; Cat; Motor cortex (Updyke, B.V.) **402**, 365

Cortical neuron collateral; Transcallosal collateral; Axonal projection; Wheat germ agglutinin–horseradish peroxidase (Ferino, F.) **417**, 257

Corticostratial neuron

Collateralization; Motor cortex; Sensory cortex; Double labelling (McGeorge, A.J.) **423**, 318

Corticothalamic pathway

Auditory cortex; Bradycardia; Differential Pavlovian conditioning; Medial geniculate; Rabbit; Response inhibition (Jarrell, T.W.) **412**, 285

Corticotrophin-releasing hormone

Rhesus monkey; Diurnal rhythm; Cerebrospinal fluid; Adrenocorticotrophic hormone (ACTH) (Kalin, N.H.) **426**, 385

Corticotropin releasing factor

Glucocorticoid; Neurosecretion; Paraventricular nucleus; Steroid feedback; Vasopressin (Sawchenko, P.E.) **403**, 213

Naloxone; Third cerebral ventricle; Sexual behaviour; Male rat (Sirinathsinghji, D.J.S.) **407**, 185

Prostaglandin E₂; Adrenocorticotropin; Pituitary; Cell culture (Sobel, D.O.)
411, 102

Gastric acid; Paraventricular nucleus; Ventromedial nucleus; Lateral hypothalamus; Caudate-putamen (Gunion, M.W.) **411**, 156

Analgesia; β -Endorphin (Hargreaves, K.M.) **422**, 154

Corticotropin releasing factor (CRF)

Opiate receptor; μ -Receptor; κ -Receptor; Naloxone; Morphine; MR 2034; Adrenocorticotrophic hormone (ACTH) (Nikolarakis, K.) **421**, 373

Nicotinic site; Neurophysin; Hypothalamus (Sharp, B.M.) **422**, 361

Corticotropin-releasing factor

Lateral hypothalamic area; Zona incerta; Afferents to the inferior colliculus; Combination of HRP and immunohistochemistry (Sakanaka, M.)
414, 68

Human cerebellum; Inferior olive; Peptide (Powers, R.E.) **415**, 347

Stress; Neurotensin; Ventral tegmental area; Dopamine; Somatostatin (Deutch, A.Y.) **417**, 350

Adrenalectomy; Hypothalamus; Paraventricular nucleus; Vasopressin (Sawchenko, P.E.) **437**, 253

Corticotropin-releasing factor (CRF)

Epilepsy; Naloxone; Verapamil (Marrosu, F.) **408**, 394

Cocaine; Adrenocorticotrophic hormone (ACTH); Drug abuse (Rivier, C.)
422, 403

Superior cervical ganglion; Preganglionic fiber; Immunocytochemistry (Wanaka, A.)
435, 91

Neuroendocrine; Intracellular; Terminal bouton (Rho, J.-H.) **436**, 143

Corticotropin-releasing hormone

Huntington's disease; Somatostatin; Basal ganglia; Postmortem human brain; Radioimmunoassay (De Souza, E.B.) **437**, 355

Corticotropin-releasing hormone (CRF)

Adrenocorticotrophic hormone (ACTH); Reserpine; Catecholamine; Hypothalamus (Suda, T.) **405**, 247

Corticovestibular projection

Uvula; Nodulus; Zone; Cat (Shojaku, H.) **416**, 100

Cowhage

Itch; Pruritus; Cutaneous receptor; Nociceptor; Mechanoreceptor (Tuckett, R.P.) **413**, 87

Itch; Pruritus; Cutaneous receptor; Nociceptor; Electrocutaneous stimulation; Signal averaging (Tuckett, R.P.) **413**, 95

Cranial motoneuron

Localization; Horseradish peroxidase; Amphibian muscle; Prey-catching behavior; Toad (Takei, K.) **410**, 395

Crayfish

Olfactory interneuron; Serotonin-like immunoreactivity (Sandeman, R.E.)
403, 371

Tritocerebrum; Interneuron; Stimulus coding; Morphology; Classification (Tautz, J.) **407**, 230

Creatine kinase (CK)

Neuron; Zona incerta; Lateral hypothalamic area; Immunohistochemistry; Mouse brain (Ikeda, K.) **435**, 348

Creutzfeldt–Jakob disease

Sleep; REM sleep;
Ponto-geniculo-occipital wave;
Neuropathological change; Raphé
lesion; Cat (Gourmelon, P.) **411**, 391

Cross-correlation

Purring; Intercoastal activity; Stretch
reflex; Small amplitude vibration;
Vocalization (Kirkwood, P.A.) **405**, 187

Hypothalamus; Raphe; Reticular
formation; Short time scale interaction;
Spike-triggered averaging; Sympathetic
nerve discharge (Gebber, G.L.)
410, 106

Medial septum; Hippocampus; Theta
rhythm; Rhythmic unit; Neuron pair
(Alonso, A.) **413**, 135

Respiration; Medullary respiratory
neuron; Phrenic nerve; Nucleus of the
solitary tract; Antidromic stimulation;
Rat (Saether, K.) **419**, 87

Cerebellar cortex; Interposed nucleus;
Simple spike; Purkinje cell
(McDevitt, C.J.) **425**, 1

Cross-correlation analysis

Primate precentral cortex organization;
Intracortical microstimulation;
Reaching movement (Kwan, H.C.)
400, 259

Cross-tolerance

Arthritic rat; Bidirectional effect of
naloxone; Morphine; Naloxone
(Kayser, V.) **405**, 123

Crossed

C₃–C₅ propriospinal neuron;
Uncrossed; Monosynaptic excitatory
postsynaptic potential; Higher motor
center; Primary afferent
(Alstermark, B.) **404**, 382

Crossed mesostriatal projection

Crossed nigrostriatal projection;
Ventral tegmental decussation;
Substantia nigra; Horseradish
peroxidase; 6-Hydroxydopamine
(Douglas, R.) **418**, 111

Crossed nigrostriatal projection

Crossed mesostriatal projection;
Ventral tegmental decussation;
Substantia nigra; Horseradish
peroxidase; 6-Hydroxydopamine
(Douglas, R.) **418**, 111

Crustacean

Sinus gland; Electrical potential;
Neurosecretion; Moulting cycle
(Chiang, R.G.) **402**, 49

Neuropeptide; Small cardioactive
peptide SCP_B; FMRFamide;
Stomatogastric nervous system;
Antibody (Callaway, J.C.) **405**, 295

Cryopreservation

Neural transplantation; Primate;
Dopamine; Culture (Collier, T.J.)
436, 363

CSF hormone

Anesthesia; Arginine vasopressin

(AVP); Angiotensin II (A II);
Cerebrospinal fluid (CSF); Conscious
animal; Hormone transport into CSF
(Simon-Oppermann, C.) **424**, 163

CSF osmolality

Drinking; Dehydration; Inhibition;
Cerebrospinal fluid sodium
concentration (CSF [Na])
(Osborne, P.G.) **412**, 36

Cue response

Lateral hypothalamus; Single neuron
activity; Monkey; Electrophoresis;
Dopamine; Noradrenaline; Operant
feeding; Reward (Nishino, H.) **405**, 56

Culture

Purkinje neuron; Granule cell;
Ethanol; Spontaneous activity;
Glutamate response (Franklin, C.L.)
416, 205

Astrocyte; Prostanoid; Phorbol ester;
Protein kinase C; Calcium (Jeremy, J.)
419, 364

Nerve growth factor; Na-K pump;
Membrane potential; Skeletal muscle
(Brodie, C.) **435**, 393

Cryopreservation; Neural
transplantation; Primate; Dopamine
(Collier, T.J.) **436**, 363

Culture condition and morphology

Cerebellar astrocyte; Quantitation of
 β -adrenergic receptor; Intact cell and
membrane (Voisin, P.J.) **404**, 65

Cultured astrocyte

Apamin; Glial cell; Photoaffinity
labeling; Potassium channel; Receptor
subunit (Seagar, M.J.) **411**, 226

Norepinephrine; Electrophysiology;
 α_1 -Receptor; Depolarization;
Desensitization (Bowman, C.L.)
423, 403

Cultured caudate putamen nucleus

Muscarinic cholinergic receptor;
[³H]Scopolamine; Binding assay;
Excitatory postsynaptic current;
Electrophysiological recording
(Usami, K.) **420**, 167

Cultured cell

Blood–brain barrier; Glycoconjugate;
Lectin; Cerebral endothelium; Protein
blot (Fatehi, M.I.) **415**, 30

Cultured hippocampal pyramidal cell

γ -Aminobutyric acid; Single chloride
channel; Patch clamp recording; Single
channel conductance; Amino acid
(Allen, C.N.) **410**, 159

Cultured neuron

N-Acetylasparylglutamate; Aspartate;
Glutamate; Chick cerebellum;
Antagonist; Intracellular recording
(Mori-Okamoto, J.) **401**, 60

Rat superior colliculus; Ionic current;
Glutamate receptor;
N-Methyl-D-aspartate; Quisqualate;
D-Amino-phosphonovaleric acid

(Grantyn, R.) **420**, 182

Cuneiform area

Superior colliculus; Pons; Tectopontine;
Retrograde double-labelling
(Redgrave, P.) **413**, 170

Cuprizone

Globoid cell leukodystrophy; Krabbe
disease; Twitcher Mouse;
Demyelination; Blood–brain barrier
(Kondo, A.) **425**, 186

Current source-density analysis

Transplantation; Visual cortex; Lateral
geniculate nucleus; Slice preparation;
Intracellular analysis (Hamasaki, T.)
422, 172

Cutaneous afferent

γ -Motoneuron; Motor control; Spinal
cord; Reflex; Muscle afferent; Muscle
spindle afferent; Movement sense
(Johansson, H.) **435**, 337

Cutaneous receptor

Itch; Pruritus; Cowhage; Nociceptor;
Mechanoreceptor (Tuckett, R.P.)
413, 87

Itch; Pruritus; Cowhage; Nociceptor;
Electrocuteaneous stimulation; Signal
averaging (Tuckett, R.P.) **413**, 95

Proprioception; Position sense; Muscle
receptor; Joint receptor (Ferrell, W.R.)
425, 369

Cutaneous reflex

Spinal cord; Transection; Pudendal
nerve; Evoked response; Supraspinal
control; Lordosis (Cohen, M.S.)
401, 103

Chronic spinal cord transection;
Excitatory postsynaptic potential;
Inhibitory postsynaptic potential
(Baker, L.L.) **420**, 340

Adult chronic spinal cat; Clonidine;
Yohimbine; Locomotion;
Noradrenaline (Barbeau, H.) **437**, 83

Cyanide

Carotid body; Light transmittance;
Hypoxia (Acker, H.) **409**, 380

Cycas

β -N-Oxalylamino-L-alanine (BOAA);
 β -N-methylamino-L-alanine (BMAA);
Lathyrus; Excitotoxin (Nunn, P.B.)
410, 375

Cyclic adenosine**3',5'-monophosphate**

Adenosine triphosphate-dependent
calcium uptake; Neuronal endoplasmic
reticulum; Lysed brain synaptosome;
Caffeine (Mekhail-Ishak, K.) **426**, 62

Cyclic adenosine 3',5'-phosphate (AMP)

Adenylate cyclase; Gonadal steroid;
Castration; Hippocampus
(Harrelson, A.) **404**, 89

Cyclic adenosine monophosphate

Startle; Alpha₂-adrenergic agonist;
Pertussis toxin;

2,-(2,6-Diethylphenylamino)-
2-imidazoline hydrochloride
(Kehne, J.H.) **406**, 87

Astrocyte; Protein phosphorylation;
Calcium (Neary, J.T.) **410**, 164

α_2 -Adrenergic receptor; Cortex;
Striatum; Neuron; Primary culture;
Pertussis toxin (Weiss, S.) **414**, 390

Neurosecretion; Corpus cardiacum;
Adipokinetic hormone; Octopamine;
Calcium; Locust (Pannabecker, T.)
423, 13

**Cyclic adenosine monophosphate
(cAMP)**

Spreading depression (SD); Slow
potential change; Cerebral cortex; Rat
(Gorelova, N.A.) **404**, 379

Memory retention; Hypoxia; Forskolin
(Ando, S.) **405**, 371

Astrocyte; Primary culture; Calcium
channel (MacVicar, B.A.) **420**, 175

Cyclic AMP

Cyclic GMP; Muscarinic response;
Acetylcholine; Dopamine;
Phosphodiesterase inhibitor
(Tsunoo, A.) **407**, 55

Choroid plexus; Chloride; Membrane
transport; Cerebrospinal fluid;
Bullfrog; Intracellular ion activity
(Saito, Y.) **417**, 267

D₁-receptor; Adenylate cyclase;
Striatum; Superior cervical ganglion;
Dopamine (Ariano, M.A.) **421**, 245

Nucleus accumbens; Neostriatum;
D₂-receptor; DA/ACh-release
(Stoof, J.C.) **423**, 364

Schwann cell; Monoclonal antibody;
Surface membrane molecule;
Myelination (Rostami, A.) **425**, 205

Audiogenic seizure; Inferior colliculus;
Convulsion; Rat (Ludvig, N.) **437**, 193

**Cyclic AMP-dependent protein
kinase II**

Muscle denervation; Bungarotoxin;
Tetrodotoxin; Acetylcholine receptor
(Held, I.R.) **407**, 341

Cyclic GMP

Cyclic AMP; Muscarinic response;
Acetylcholine; Dopamine;
Phosphodiesterase inhibitor
(Tsunoo, A.) **407**, 55

Cyclic guanosine monophosphate
Cerebellum; Climbing fiber; Mossy
fiber; Inferior olivary nucleus;
Locomotor activity (McCaslin, P.P.)
414, 381

Acetylcholine; Protein kinase; Voltage
clamp; Cortex; Ionic conductance
(Woody, C.D.) **424**, 193

Acetylcholine; Peripheral nerve;
Conduction; Potassium channel;
Neurotransmitter; Cyclic nucleotide
(Kendig, J.J.) **435**, 24

Astrocyte; Atrial natriuretic peptide
(ANP); Benzodiazepine receptor;
Calcium channel; Neuron
(Bender, A.S.) **436**, 189

**Cyclic guanosine monophosphate
(cGMP)**

Excitatory amino acid;
N-Methyl-D-aspartate; Kainate;
Quisqualate; Neuronal culture
(McCaslin, P.P.) **417**, 380

Climbing fiber; 3-Acetylpyridine;
Purkinje cell; Cerebellum; Simple
spike; Complex spike (Oltmans, G.A.)
437, 183

Cyclic nucleotide

Spontaneously hypertensive rat (SHR);
Neurochemistry; Sympathetic ganglion;
Neuropeptide; Dopamine
(Ariano, M.A.) **415**, 115

Acetylcholine; Peripheral nerve;
Conduction; Potassium channel;
Neurotransmitter; Cyclic guanosine
monophosphate (Kendig, J.J.) **435**, 24

Cyclic nucleotide phosphodiesterase

Retina; Dopamine; Melatonin;
Serotonin N-acetyltransferase
(Iuvone, P.M.) **418**, 314

**2',3'-Cyclic nucleotide
3'-phosphohydrolase**

Quaking mouse; Calcium;
Calcium-activated neutral proteinase;
Myelin; Cytosol (Banik, N.L.) **435**, 57

**2',3'-Cyclic nucleotide
3'-phosphodiesterase**

Schwann cell line; Simian virus 40
(SV40) transformation; Myelin-protein;
P₀ protein; P₀ mRNA;
Myelin-associated glycoprotein;
Galactocerebroside; Sulfatide
(Chen, G.L.) **414**, 35

**2',3'-Cyclic nucleotide
3'-phosphodiesterase (CNPase)**

Monoclonal antibody;
Oligodendrocyte; Schwann cell; Cell
marker enzyme; Wolfgram protein
fraction (Sprinkle, T.J.) **426**, 349

**3',5'-Cyclic guanosine
monophosphate**

Immunocytochemistry; Superior
cervical ganglion; Rat (De Vente, J.)
411, 120

Cyclofoxy

[³H]Cyclofoxy; Positron emission
tomography (PET); Opiate receptor;
Naloxone; In vivo autoradiography;
Autoradiography; Radiolabeled
opiates; Naltrexone; Rat brain; Opiate
receptor distribution;
6-Deoxy-6 β -fluoronaltrexone
(Ostrowski, N.L.) **402**, 275

Cyclooxygenase

Convulsant; Mouse brain microsome
(Lysz, T.W.) **408**, 6

Cyclopia

Olfactory organ; Malformation;
Prosencephalon; Amphibian

(Magrassi, L.) **412**, 386

1-Cyclohexyl-2-mercapto-imidazole

Sympathetic nervous system;
Bombesin; Dopamine β -hydroxylase;
Norepinephrine turnover; Cold
exposure (Brown, M.) **400**, 35

8-Cyclopentyl 1,3-dimethylxanthine

Proconvulsant; Adenosine
(Dragunow, M.) **417**, 377

[³H]Cyclofoxy

Positron emission tomography (PET);
Opiate receptor; Naloxone; In vivo
autoradiography; Autoradiography;
Cyclofoxy; Radiolabeled opiates;
Naltrexone; Rat brain; Opiate receptor
distribution;
6-Deoxy-6 β -fluoronaltrexone
(Ostrowski, N.L.) **402**, 275

Cyproheptadine

Heat stress; 5-Hydroxytryptamine
level; Blood-brain barrier
permeability; Cerebral blood flow;
p-Chlorophenylalanine; Indomethacin;
Diazepam; Vinblastine (Sharma, H.S.)
424, 153

Embolism; Cerebral ischemia;
Microsphere; Stroke model;
Pharmacology (Zivin, J.A.) **435**, 305

Cyst

Pineal body; Human; Aging;
Histology; Calcification; Hypertension
(Hasegawa, A.) **409**, 343

Cysteamine

Somatostatin; Neuropeptide Y
(Chattha, G.K.) **401**, 359

Somatostatin; Norepinephrine;
Dopamine; Cerebrospinal fluid (CSF);
Memory; Activity; Rat
(Haroutunian, V.) **403**, 234

Kindling; Myoclonus; Midazolam;
Seizure; Long-term inhibition
(Cottrell, G.A.) **412**, 161

Cysteine sulfinate

Excitatory amino acid; Binding site;
Glutamate; Aspartate (Pin, J.-P.)
402, 11

L-Cysteine-sulphinate

L-Aspartate; N-Methyl-D-aspartate;
Quisqualate; Kainate; Iontophoresis;
Membrane potential; Caudate;
Excitatory amino acid; Cat
(Turski, W.A.) **414**, 330

Cytoarchitectural organization

Somatosensory cortex; Oral structure;
Tactile sensation; Bilateral
representation; Somatotopic
representation (Taira, K.) **409**, 41

Cytochrome

Redox state; Potassium chloride excess;
Electrical stimulation; Tetrodotoxin;
Neurohypophysis (Harada, E.)
414, 173

Cytochrome aa₃ redox state

Cortical oxidative metabolism; Cortical
blood volume; Reflectance

spectrophotometry; Cortical window; Carotid occlusion; Unanesthetized animal (Vern, B.A.) **415**, 188

Cytochrome oxidase

Fetal transplants; Frontal cortex; Acetylcholinesterase; Choline acetyltransferase; Morphology (Mufson, E.J.) **401**, 162

Succinate dehydrogenase; Rat; Mouse; Neocortex; Sensory map (Wallace, M.N.) **418**, 178

Acetylcholine; Choline acetyltransferase; Interpeduncular nucleus; Medial habenula; Fasciculus retroflexus; Plasticity (Eckenrode, T.C.) **418**, 273

Interpeduncular nucleus; Fasciculus retroflexus; Substance P; Choline acetyltransferase; Serotonin; Bodian stain; Plasticity; Development (Barr, G.A.) **418**, 301

Sensory deprivation; Glutamic acid decarboxylase (GAD); Thalamus; Reticular nucleus (Land, P.W.) **425**, 178

Cytochrome oxidase (cytochrome a₃)

Brain oxygen supply; Seizure; Status epilepticus; Pulmonary edema; Cerebral hypoxia (Kreisman, N.R.) **417**, 335

Cytodex beads

Nitrous oxide; β -Endorphin; α -Melanocyte stimulating hormone; Medial basal hypothalamus; In vitro superfusion (Zuniga, J.R.) **420**, 66

Cytoplasmic Ca²⁺

Hippocampal slice; Granule cell; L-Glutamate; Fura-2 fluorometry (Kudo, Y.) **407**, 168

Cytoplasmic pH

Cytotoxic edema; Cell swelling; Na⁺/H⁺ exchange; Glioma cell; Astrocyte; Amiloride (Jakubovicz, D.E.) **435**, 138

Cytosine arabinoside

Astrocyte; Synaptic density; Electron microscopy; Cerebellar explant (Meshul, C.K.) **402**, 139

Cytoskeletal abnormality

Hirano body; 200-KDa Neurofilament; Long-term CNS transplant; Peripheral nerve (Doering, L.C.) **401**, 178

Cytoskeleton

Hirano body; Tau protein; Alzheimer's disease; Neurofibrillary tangle; Paired helical filament; Immunocytochemistry (Galloway, P.G.) **403**, 337

Alzheimer disease; Paired helical filaments; Neurofilament; Microtubule associated protein; Immunocytochemistry (Perry, G.) **420**, 233

Brain cortex; Kainic acid; Neurotoxicity; Pyknosis; Swelling; Calcium; Chloride (Berdichevsky, E.) **423**, 213

Cytosol

Quaking mouse; Calcium; Calcium-activated neutral proteinase; 2',3'-Cyclic nucleotide 3'-phosphohydrolase; Myelin (Banik, N.L.) **435**, 57

Cytotoxic edema

Cytoplasmic pH; Cell swelling; Na⁺/H⁺ exchange; Glioma cell; Astrocyte; Amiloride (Jakubovicz, D.E.) **435**, 138

Cytotoxicity

Neurotoxicity; Dextrorphan; Opiate; Dextromethorphan; Glutamate; Cortex; Cell culture (Choi, D.W.) **403**, 333

Neurotoxicity; Homocysteic acid; Homocysteate; Cortical neuron; Cell culture; N-Methyl-D-aspartate (NMDA); Excitatory amino acid; Glutamate (Kim, J.P.) **437**, 103

D

150 kDa neurofilament protein

Peripheral nerve regeneration; Immunocytochemistry; α -MSH/NF150 cross-reacting antibody; Neurotrophic melanocortin (Verhaagen, J.) **404**, 142

D1-protein

N-CAM; D2-protein; Synaptic remodelling; Red nucleus; D3-protein; S-100; Lesion (Jørgensen, O.S.) **405**, 39

D2-protein

N-CAM; Synaptic remodelling; Red nucleus; D1-protein; D3-protein; S-100; Lesion (Jørgensen, O.S.) **405**, 39

D3-protein

N-CAM; D2-protein; Synaptic remodelling; Red nucleus; D1-protein; S-100; Lesion (Jørgensen, O.S.) **405**, 39

D₁-receptor

Substantia nigra; Globus pallidus; Dopamine; Autoreceptor; Dopamine agonist; D₂ receptor; Single unit recording (Carlson, J.H.) **400**, 205

Aging; Muscarinic receptor; Dopamine receptor; D₂ receptor (Rinne, J.O.) **404**, 162

Substantia nigra pars reticulata; 6-Hydroxydopamine; Nigrostriatal lesion; Dopamine; D₂-receptor; Single unit recording (Weick, B.G.) **405**, 234

Dopamine receptor; Spiperone binding; D₂ receptor; In vivo ligand binding (Leslie, C.A.) **407**, 253

Substantia nigra; [¹²⁵I]SCH 23982; Caudate nucleus (Yamamoto, T.) **407**, 398

Dopamine receptor; Ibotenic acid; 6-Hydroxydopamine; SCH-23390; Substantia nigra; Autoradiography (Filloux, F.M.) **408**, 205

Striatonigral neuron; Substantia nigra; Neostriatum; Dopamine; Quinolinic acid; [¹²⁵I]SCH 23982; SCH 23390; Denervation (Altar, C.A.) **410**, 1

Light-dark adaptation; Chronic SCH 23390; [³H]SCH 23390 binding; Dopamine-sensitive adenylate cyclase; Retina (Porceddu, M.L.) **424**, 264

D₁- and D₂-receptor

In vivo receptor labeling; Neuroleptic drug; Single photon emission computed tomographic (SPECT) scanning (Leslie, C.A.) **415**, 90

Adenylate cyclase; Cyclic AMP; Striatum; Superior cervical ganglion; Dopamine (Ariano, M.A.) **421**, 245

D₂-receptor

Substantia nigra; Globus pallidus; Dopamine; Autoreceptor; Dopamine agonist; D₁ receptor; Single unit recording (Carlson, J.H.) **400**, 205

[³H]Sulpiride; Sodium ion; Magnesium ion; Temperature; Guanine nucleotide; Ni protein; Ternary complex model (Imafuku, J.) **402**, 331

Dopamine target cell supersensitivity; Dopaminergic denervation; Striatum; Acetylcholine level (Paturle, L.) **402**, 383

Aging; Muscarinic receptor; Dopamine receptor; D₁ receptor (Rinne, J.O.) **404**, 162

Acetylcholine release; Rat brain; Gekko brain; Telencephalic structure (Stoof, J.C.) **404**, 273

Substantia nigra pars reticulata; 6-Hydroxydopamine; Nigrostriatal lesion; Dopamine; D₁-receptor; Single unit recording (Weick, B.G.) **405**, 234

Dopamine receptor; Spiperone binding; D₁ receptor; In vivo ligand binding (Leslie, C.A.) **407**, 253

Basal hypothalamus; Neurointermediate lobe; Median eminence; Dopamine release (Planté, J.F.) **413**, 205

Nucleus accumbens; Neostriatum; DA/ACh-release; Cyclic AMP (Stoof, J.C.) **423**, 364

[³H]Dopamine release; In vitro release; Nucleus accumbens; Apomorphine; Desenkaphalin- γ -endorphin; Dopamine agonist; Dopamine antagonist (Radhakishun, F.S.) **426**, 235

DA/ACh-release

Nucleus accumbens; Neostriatum;
D₂-receptor; Cyclic AMP (Stoof, J.C.)
423, 364

Dark adaptation

Aspartate; Dopamine; γ -Aminobutyric acid; Acetylcholine; Retina; Visual pathway; Light adaptation
(Chentanez, T.) **424, 115**

DC potential

Perivascular microapplication; Hydrogen ion; Potassium ion; Bradykinin;
Adenosine (Wahl, M.) **411, 72**

DdN Strain mouse

Corpus callosum; Acallosal brain;
Probst's bundle; Callosal development;
Anterior commissure; Hippocampal commissure (Ozaki, H.S.) **400, 239**

DDT

Rainbow trout brain synaptosome;
Voltage-dependent sodium channel;
Aconitine; Batrachotoxin; Veratridine;
Tetrodotoxin; *Leiurus quinquestriatus* venom (Stuart, A.M.) **437, 77**

Deafferentation

Na⁺, K⁺-ATPase; Ouabain binding;
Olfactory tubercle (Swann, A.C.)
404, 323

Deafness

Attention; Peripheral-central visual field; Event-related brain potential;
Motion perception; Hemispheric specialization; Development
(Neville, H.J.) **405, 268**

Attention; Peripheral-central visual field; Event-related brain potential;
Motion perception; Hemispheric specialization; Development; American sign language (Neville, H.J.) **405, 284**

Death

Neurite; Transection; Axotomy; Injury;
Trauma; Calcium; Retraction
(Lucas, J.H.) **425, 384**

Decarboxylation

Aromatic-L-amino acid; Glial cell
(Juorio, A.V.) **426, 183**

Decay in dynamic component

Frog muscle spindle; Fusimotor innervation; Enhancement of static component; Glycogen depletion; Small diameter intrafusal muscle fiber
(Fujitsuka, N.) **415, 144**

2-Decenoic acid

Cell membrane expansion; Tissue culture; Dorsal root ganglion; Neuron;
Inhibition of action potential; Fatty acid; Adult mouse (Horie, H.) **411, 298**

Decerebration

Rhythmic digastric activity; Rhythmic jaw movement; Midbrain (Tal, M.)
411, 58

Decortication

Substantia nigra; Pedunculopontine nucleus (Scarnati, E.) **423, 116**

Deep cerebellar nucleus

Glutamic acid decarboxylase;
Cerebellar cortex; Climbing fiber;
Purkinje cell; Motor behavior;
Behavioral recovery; Inferior olive;
3-Acetylpyridine (Sukin, D.) **426, 82**

Deer mice

Activity; Stress-induced analgesia;
Immobilization; Opioid analgesia;
Naloxone; ICI 154, 129; *Peromyscus maniculatus*; Sex; Genetic;
Island-Mainland population
(Kavaliers, M.) **425, 49**

Defence reaction

Epilepsy; Seizure; Emotion; Interictal behavior; Kainic acid; Aggression;
Temporal lobe (Griffith, N.) **400, 360**

Dopaminergic system; Ventromedial hypothalamus; A10 region; Inhibition;
Sulpiride (Piazza, P.V.) **413, 356**

γ -Aminobutyric acid; Hypothalamus;
Approach; Avoid; Aversive drive;
Bicuculline; Muscimol (Shekhar, A.)
420, 118

Defensive attack

Recovery of function; Dopamine;
Ventromedial hypothalamic nucleus;
Lateral septum; Gating mechanism
(Maeda, H.) **407, 381**

Degenerated myelin

Human brain; Anterograde degeneration; Cholesterol ester crystal;
Polarizing microscopy; Macrophage;
Tract tracing (Miklossy, J.) **426, 377**

Degenerating synapse

Synaptic reorganization; Lesion;
Medial amygdaloid nucleus; Bed nucleus of stria terminalis; Accessory olfactory bulb; Electron microscopy;
Rat (Ichikawa, M.) **420, 253**

Degeneration

Striatum; Olfactory tubercle; Pallidum;
Mediodorsal nucleus; Horseradish peroxidase; Electron microscopy
(Zahm, D.S.) **404, 327**

Cholinergic nucleus; Rat forebrain;
Immunohistochemistry; Development
(Sofroniew, M.V.) **411, 310**

Motor nerve; Neuromuscular transmission; Lipid peroxidation;
Anti-oxidant (Hall, E.D.) **413, 175**

Retina; Kainic acid; Tectum; Ganglion cell; Excitotoxicity; Synapse
(Ehrlich, D.) **415, 342**

Degenerative atrophy

Circling behavior; Colchicine; Striatum;
Apomorphine; Methamphetamine
(Kamata, K.) **421, 353**

Dehydration

Drinking; Inhibition; Cerebrospinal fluid sodium concentration (CSF [Na]);
CSF osmolality (Osborne, P.G.)
412, 36

Autoradiography; Brattleboro rat;
Dynorphin; κ -Opiate receptor;

Receptor localization; Vasopressin
(Brady, L.S.) **425, 212**

Dehydroepiandrosterone

Dehydroepiandrosterone sulfate; Tissue culture; Memory (Roberts, E.)
406, 357

Dehydroepiandrosterone sulfate

Dehydroepiandrosterone; Tissue culture; Memory (Roberts, E.)
406, 357

Deiodinase

Thyroxine; Triiodothyronine; Thyroid hormone; Hypothalamus; Median eminence (Riskind, P.N.) **420, 194**

Deiters' nucleus

Locus coeruleus; Vestibular complex;
Vestibular nucleus; Horseradish peroxidase; Brainstem (Fung, S.J.)
401, 347

Delayed vasospasm

Angiography; Cerebral blood flow (CBF); Cerebral metabolic rate of oxygen (CMRO₂); Carbon dioxide reactivity; Autoregulation; Calcium antagonist (Sahlin, C.) **403, 313**

Delta opioid peptide

Opioid binding; Hippocampus;
Kindling; Autoradiography; Mu opioid peptide (Crain, B.J.) **412, 343**

Delta-9-tetrahydrocannabinol (THC)

Rat hippocampus; Neuron morphometry; Dendrite; Synaptic density (Scallet, A.C.) **436, 193**

Delta-sleep-inducing peptide (DSIP)

Single intracerebroventricular injection;
Sleep-wake activity; Cat (Sušić, V.)
414, 262

Dementia

Neurofilament; Human; Neocortex;
Entorhinal cortex; Subiculum;
Neurofibrillary tangle (Morrison, J.H.)
416, 331

[³H]Imipramine binding;

Proteinaceous; 5-Hydroxytryptamine;
Desipramine; Human brain; Aging
(Marcusson, J.O.) **425, 137**

Demyelination

Reactive astrocyte; Shared antigen;
Glialfibrillary acidic protein antibody;
Galactocerebroside antibody; Optic nerve (Carroll, W.M.) **411, 364**

Ranvier's node; Wallerian degeneration; Frog; Sciatic nerve;
Freeze-fracturing; Myelin; Axolemma
(Ishise, J.) **418, 85**

Experimental allergic neuritis;
Complement (Feasby, T.E.) **419, 97**

Globoid cell leukodystrophy; Krabbe disease; Twitcher Mouse; Cuprizone;
Blood-brain barrier (Kondo, A.)
425, 186

Dendrite

Aging; Senile dementia; Alzheimer's

disease; Dentate gyrus; Human; Hippocampus (Flood, D.G.) **402**, 205

Alzheimer's disease; Senile dementia; Spine density; Dentate gyrus; Granule cell; Golgi-rapid study; Morphometry; Human brain (De Ruiter, J.P.) **402**, 217

Cerebellum; Neurofilament; Immunohistochemistry (Shiurba, R.A.) **407**, 205

Aging; Senile dementia; Alzheimer's disease; CA₂₋₃; Human; Hippocampus (Flood, D.G.) **409**, 88

Nervous system-specific protein; S54 protein; Synapse; Immunoelectron microscopy; Monoclonal antibody (Shirao, T.) **413**, 374

Alzheimer's disease; Microtubule; Frontal cortex (Paula-Barbosa, M.) **417**, 139

Neuron; Glia; Bouton; Capillary; Mitochondria; Rat; Plasticity; Memory; Learning (Sirevaag, A.M.) **424**, 320

Spinal cord; Motoneuron; Membrane resistance; Electrotonic length; Cable model; Time constant (Glenn, L.L.) **435**, 398

Delta-9-tetrahydrocannabinol (THC); Rat hippocampus; Neuron morphometry; Synaptic density (Scallet, A.C.) **436**, 193

Dendritic and axonal arborizations
Identified giant neuron; Synaptic input; Axonal output; Buccal ganglion; *Helix pomatia* (Altrup, U.) **414**, 271

Dendritic cable property
Vestibular nucleus; N-Methyl-D-aspartate; Acidic amino acid receptor; Modulator; In vitro (Knöpfel, T.) **426**, 212

Dendritic integration
Mauthner cell; Somatosensory input; Startle reflex; Goldfish (Chang, Y.T.) **417**, 205

Dendritic morphology
Embryonic graft; Neostriatum; Transplantation; Spiny neuron; Morphometry; Rat (Zemanick, M.C.) **414**, 149

Dendritic spine
Synaptic vesicle; Long-term potentiation; Hippocampus; Presynaptic; Stereology (Applegate, M.D.) **401**, 401

Ethanol; Hippocampus; Stratum oriens; Long-sleep mouse; Short-sleep mouse (Scheetz, A.J.) **409**, 329

Dendritic stratification
Choline acetyltransferase; Rabbit retina; Glutamate decarboxylase; Immunocytochemistry; Acetylcholinesterase (Brandon, C.) **401**, 385

Denervation

Insulin receptor; Skeletal muscle; Neurotrophism (Hofmann, W.W.) **401**, 312

Chorda tympani; Lingual nerve; Taste bud; Fungiform papilla; Hamster (Whitehead, M.C.) **405**, 192

Whisker; Oxidative enzyme; Trigeminal system; Visual system (Yip, V.S.) **406**, 157

Striatonigral neuron; D₁ receptor; Substantia nigra; Neostriatum; Dopamine; Quinolinic acid; [¹²⁵I]SCH 23982; SCH 23390 (Altar, C.A.) **410**, 1

Rat skeletal muscle; Na⁺, K⁺ Transport; Deoxycorticosterone acetate (DOCA) hypertension; Central nervous system (CNS) (Nagaoka, R.) **410**, 283

Sciatic; Saphenous; 4-Aminopyridine; γ -Aminobutyric acid (GABA); Glycine; Spinal cord; Sprouting (Markus, H.) **416**, 315

Microtubule-associated protein; Tau; Hippocampus; Immunocytochemistry; Electrophoresis (Busciglio, J.) **419**, 244

Axon reaction; Lamprey; Spinal cord; Interneuron; Axonal regeneration; Chromatolysis; Spontaneous synaptic activity (Yin, H.-S.) **421**, 48

Density gradient centrifugation
Rabbit; Central nervous system (CNS); Myelin sheath; Ranvier's node; Marchi staining (Corneliusson, O.) **416**, 43

Dentate area
Long-term depression; Long-term potentiation; Perforant path; Tetanization frequency; Spreading depression (Bramham, C.R.) **405**, 100

Dentate fascia
Chronic ethanol; Long Sleep mouse; Short Sleep mouse; γ -Aminobutyric acid (GABA); Basket cell (Scheetz, A.J.) **403**, 151

Dentate granule cell
Substantia nigra pars reticulata; Population spike; NMDA (N-methyl-D,L-aspartate); Limbic system excitability; Basal ganglia (Shin, C.) **411**, 21

Dentate gyrus
Perforant path; Long-term potentiation; Excitatory postsynaptic potential (EPSP); Population spike; Feed-forward inhibition (Kairiss, E.W.) **401**, 87

Aging; Senile dementia; Alzheimer's disease; Dendrite; Human; Hippocampus (Flood, D.G.) **402**, 205

Alzheimer's disease; Senile dementia; Dendrite; Spine density; Granule cell; Golgi-rapid study; Morphometry; Human brain (De Ruiter, J.P.) **402**, 217

Hippocampus; Sequential dependencies; Single unit recording (Foster, T.C.) **408**, 86

Colchicine; Hippocampus; Neurobehavior (Tilson, H.A.) **408**, 163

Non-pyramidal cell; Fast spiking cell; GABAergic neuron; Hippocampus; Slice preparation; Intracellular injection of HRP (Kawaguchi, Y.) **411**, 190

Epilepsy; Kindling; Hippocampus; Recurrent inhibition; Long-term potentiation (De Jonge, M.) **412**, 318

Opioid; Development; Cerebellum; Cerebral cortex; Hippocampus (Hauser, K.F.) **416**, 157

γ -Aminobutyric acid (GABA); Glutamic acid decarboxylase (GAD); Ca²⁺ binding protein; Parvalbumin; Local circuit neuron; Hippocampus; Immunohistochemistry (Kosaka, T.) **419**, 119

Kindling; Long-term potentiation; Perforant path; Epilepsy (Sutula, T.) **420**, 109

Hippocampus; Subiculum; Fast-spiking cell; Non-pyramidal cell (Kawaguchi, Y.) **425**, 351

Hippocampus; Recurrent collateral inhibition; SKF-100330A; SKF-89976A. γ -Aminobutyric acid (GABA); γ -Aminobutyric acid (GABA) uptake blocker; γ -Aminobutyric acid (GABA)-mediated inhibition; Facilitation (Albertson, T.E.) **435**, 283

Synaptic plasticity; Perforant path; H-7; Melittin; Polymyxin B; Protein phosphorylation (Lovinger, D.M.) **436**, 177

Deoxycorticosterone acetate (DOCA) hypertension
Rat skeletal muscle; Na⁺, K⁺ Transport; Denervation; Central nervous system (CNS) (Nagaoka, R.) **410**, 283

Deoxycorticosterone acetate (DOCA)-salt hypertension
Locus coeruleus; Epinephrine; Glutamate (Berecek, K.H.) **401**, 303

Deoxycorticosterone-salt hypertension
Hypothalamus; Midbrain; Knife cut (Cannata, M.A.) **420**, 295

6-Deoxy-6 β -fluoronaltrexone
[³H]Cyclofoxy; Positron emission tomography (PET); Opiate receptor; Naloxone; In vivo autoradiography; Autoradiography; Cyclofoxy; Radiolabeled opiates; Naltrexone; Rat brain; Opiate receptor distribution (Ostrowski, N.L.) **402**, 275

Deoxyglucose
Correlation matrix; Positron emission tomography; Alzheimer's disease; Brain metabolism (Horwitz, B.) **407**, 294

Electroconvulsive shock; Hippocampus; Seizure; Glucose utilization (Orzi, F.) **423**, 144

Circadian rhythmicity; Suprachiasmatic nucleus; Energy metabolism; Albino rat; Squirrel monkey (Schwartz, W.J.) **424**, 249

Phencyclidine; Glucose utilization; Limbic system; σ -Receptor; Brain imaging (Weissman, A.D.) **435**, 29

2-Deoxyglucose

Nicotine; Local cerebral glucose utilization; Nicotine receptor; Rat brain (Grünwald, F.) **400**, 232

Autoradiography; Cellular resolution; Neuron; Glial cell (Duncan, G.E.) **401**, 43

Midbrain reticular stimulation; Cerebellum; Flocculus; Vestibular nucleus; Learning (Gonzalez-Lima, F.) **412**, 275

Peripheral nerve; Ischemia; Regional glucose utilization (Sladky, J.T.) **414**, 323

Olfaction; Olfactory bulb; Olfactory discrimination; Olfactory coding (Slotnick, B.M.) **417**, 343

Odor processing; Spatial coding; Olfactory bulb; Olfactory epithelium; Suckling pheromone; Odor learning; Newborn rabbit (Hudson, R.) **421**, 85

Autoradiography; Hippocampus; Cerebral cortex; Thalamus; Piracetam; Scopolamine; Rat (Piercey, M.F.) **424**, 1

Striatal lesion; Muscimol; Apomorphine (Kelly, P.A.T.) **425**, 290

Odor; Mixture suppression; Psychophysics; Olfactory epithelium; Odor polarity; Human; Rat (Bell, G.A.) **426**, 8

Glucose utilization; Autoradiography; Serotonin; 5-HT_{1A} receptor; Ipsapirone; Hippocampus; Rat (Wree, A.) **436**, 283

2-Deoxyglucose (2-DG)

Olfactory glomerulus; Mouse; Computer-assisted image analysis (Royet, J.P.) **417**, 1

2-Deoxyglucose method

Circadian rhythm; Suprachiasmatic nucleus; Calcium (Shibata, S.) **426**, 332

2-Deoxyglucose uptake

Parafascicular region; Behavior (Pavlidis, C.) **423**, 399

[1-¹⁴C]2-Deoxyglucose

Minor tranquilizer; Meprobamate; Phenobarbital; Local cerebral glucose utilization (Ableitner, A.) **403**, 82

[¹⁴C]2-Deoxyglucose

Medial terminal nucleus; Retinal slip; Long-Evans rat (Biral, G.P.) **412**, 43

Brain metabolism; Caffeine;

Methylxanthine; Diazepam; Benzodiazepine (Nehlig, A.) **419**, 272

[¹⁴C]2-Deoxyglucose technique

γ -Aminobutyric acid (GABA); Progabide; Glucose utilization; Muscimol; Central serotonergic neuron (Cudennec, A.) **423**, 162

[¹⁴C]2-Deoxyglucose autoradiography

Midbrain central gray; Affective defense behavior; Quiet biting attack behavior; [³H]Leucine autoradiography (Shaikh, M.B.) **437**, 9

[¹⁴C]Deoxyglucose

Striatum; Caudate nucleus; Basal ganglia; Glucose utilization; Apomorphine; Dopamine (Brown, L.L.) **411**, 65

[³H]2-Deoxyglucose

Ischemia; Hippocampus; Light microscope radioautography; Electron microscope radioautography; Rapid freezing technique (Izumiyama, K.) **416**, 175

Dependence

Morphine; Analgesia; Tolerance; Cholecystokinin; Proglumide; Benzotript (Panerai, A.E.) **410**, 52

Depletion

Hippocampal zinc; Mossy fiber; Perikaryal accumulation; Colchicine; Rat brain (Szerdahelyi, P.) **422**, 287

Depolarization

Epinephrine; β -Adrenoceptor; Voltage-dependent g_K ; M-channel (Akasu, T.) **405**, 375

Lithium; Synaptosome; K⁺-equilibrium distribution; Cortex slice (Adam-Vizi, V.) **410**, 257

Choline acetyltransferase (ChAT) activation; Rat hippocampus; Acetylcholine (ACh) release (Carroll, P.T.) **414**, 401

Serotonin; Cortical neuron; Intracellular; 5-HT₁; 5-HT₂; Hyperpolarization (Davies, M.F.) **423**, 347

Norepinephrine; Electrophysiology; Cultured astrocyte; α_1 -Receptor; Desensitization (Bowman, C.L.) **423**, 403

Deprivation

In vivo autoradiography; Drinking; Reinforcement; Opioid; Opiate receptor (Blake, M.J.) **413**, 111

Depth perception

Visual cortex; Corpus callosum; Binocular interaction; Stereopsis; Disparity-sensitive neuron; Nasotemporal overlap; Ocular dominance; Cat (Gardner, J.C.) **413**, 60

Dermatome

Collateral sprouting; Sensory axon; Hairy skin; Spinal nerve lesion; Wheat

germ agglutinin-horseradish peroxidase conjugate; Anterograde transport; Microinjection (Kinnman, E.) **414**, 385

1-Desamino-8-D-arginine vasopressin

Vasopressin; Fever; Interleukin-1; Neuropeptide; Vasopressor antagonist; V₁/V₂ receptor (Naylor, A.M.) **401**, 173

Descending control

Locus coeruleus; Brainstem; Monosynaptic reflex; Renshaw cell; Spinal cord; Motoneuron; Inhibition (Fung, S.J.) **402**, 351

Recurrent inhibition; Monosynaptic reflex; Raphé nucleus; Medulla oblongata; Lysergic acid diethylamide (LSD) (Kaneko, T.) **417**, 403

Descending fiber

Motoneuron connexion; Unitary excitatory postsynaptic potential; Horseradish peroxidase staining; Quantal analysis (Babalian, A.L.) **407**, 394

Descending inhibition

Lateral reticular nucleus; Locus coeruleus/subcoeruleus; Stimulation-produced antinociception; Norepinephrine depletion; 6-Hydroxydopamine (6-OHDA); Supersensitivity; α_2 -Adrenoceptor up-regulation (Janss, A.J.) **400**, 40

Spinal α_2 -adrenoceptor; Lateral hypothalamus; Stimulation-produced antinociception; Tail-flick reflex (Aimone, L.D.) **403**, 290

Spinal dorsal horn neuron; Nociception; Diffuse noxious inhibitory control; Cat (Morton, C.R.) **410**, 347

Descending pathway

Respiratory neuron; Nucleus tractus solitarius; Antidromic mapping (Jiang, C.) **413**, 189

Diagonal band of Broca; Substantia innominata; *Phaseolus vulgaris* leucoagglutinin (Tomimoto, H.) **425**, 248

Desenkephalin- γ -endorphin

[³H]Dopamine release; In vitro release; Nucleus accumbens; D₂ receptor; Apomorphine; Dopamine agonist; Dopamine antagonist (Radhakishun, F.S.) **426**, 235

Desensitization

Angiotensin; Bradykinin; Electrophysiology; Glioma cell (Höpp, H.-P.) **412**, 175

Norepinephrine; Electrophysiology; Cultured astrocyte; α_1 -Receptor; Depolarization (Bowman, C.L.) **423**, 403

Desipramine

Thyrotropin-releasing hormone (TRH); Wet-dog shakes; Antidepressant; Nialamide (Sills, M.A.) **401**, 195

Norepinephrine release; Brain slice; Electrical stimulation; Tyrosine; Hypothalamus; Rat (Irie, K.) **423**, 391

Neurotensin; Modulation; Dopamine release; Nucleus accumbens (Reyeneke, L.) **425**, 114

[³H]Imipramine binding; Protease sensitivity; Sodium dependency; 5-Hydroxytryptamine; Human brain (Bäckström, I.T.) **425**, 128

[³H]Imipramine binding; Proteinaceous; 5-Hydroxytryptamine; Human brain; Aging; Dementia (Marcusson, J.O.) **425**, 137

Desmethylinipramine

6-Hydroxydopamine; Plasticity; Monocular deprivation (Allen, E.E.) **401**, 397

Desoxycorticosterone acetate (DOCA)/NaCl-hypertensive rat

LY171555 (Quinpirole); Metoclopramide; Dopaminergic System Activity; Striatum; In vivo push-pull perfusion; High-performance liquid chromatography (HPLC) (Chen, Y.-F.) **400**, 225

Desynchronized sleep

Pontine tegmentum; Acetylcholine; Carbachol; Cat; Microinjection (Baghdoyan, H.A.) **414**, 245

Developing spinal cord

Androgen; Organotypic culture; Testosterone metabolism; Aromatase; 5 α -Reductase; Neurotrophic factor (Hauser, K.F.) **406**, 62

Development

Striatum; Compartment; Opiate receptor; [³H]Thymidine (Van der Kooy, D.) **401**, 155

6-Hydroxydopamine; Posteromedial barrel subfield; Somatosensory cortex (Loeb, E.P.) **403**, 113

Prostanoid; Astroglia; Primary culture (Seregi, A.) **404**, 113

Hippocampal slice; Spreading depression; Inhibitory postsynaptic potential (IPSP); γ -Aminobutyric acid (GABA); Pyramidal cell; Anoxia (Janigro, D.) **404**, 189

Attention; Peripheral–central visual field; Event-related brain potential; Deafness; Motion perception; Hemispheric specialization (Neville, H.J.) **405**, 268

Attention; Peripheral–central visual field; Event-related brain potential; Deafness; Motion perception; Hemispheric specialization; American sign language (Neville, H.J.) **405**, 284

Ponto-geniculo-occipital (PGO); Sleep; Unit activity; Lateral geniculate nucleus; Cat (Davenne, D.) **409**, 1

Axon; Potassium channel; Myelinated nerve fiber (Rasminsky, M.) **411**, 167

Cholinergic nucleus; Rat forebrain; Immunohistochemistry; Degeneration (Sofroniew, M.V.) **411**, 310

Calcitonin gene-related peptide; Cerebellum; Immunohistochemistry; Rat (Kubota, Y.) **415**, 385

Primary cultured γ -aminobutyric acid (GABA)ergic neuron; GABA metabolism; GABA receptor; Benzodiazepine receptor (Kuriyama, K.) **416**, 7

Opioid; Cerebellum; Cerebral cortex; Hippocampus; Dentate gyrus (Hauser, K.F.) **416**, 157

Ionic channel; Rat brain; Autoradiography (Mourre, C.) **417**, 21

Scrapie-related protein mRNA; Transcription rate (Lieberburg, I.) **417**, 363

Interpeduncular nucleus; Fasciculus retroflexus; Substance P; Choline acetyltransferase; Serotonin; Cytochrome oxidase; Bodian stain; Plasticity (Barr, G.A.) **418**, 301

Cerebellar Purkinje neuron; Glutamate; Spontaneous activity; Fetal alcohol syndrome; Chronic ethanol (Yool, A.J.) **420**, 205

Phrenic nerve; Power spectra; Respiratory rhythm generator (RRG); High-frequency oscillation (HFO); Medium frequency oscillation (MFO); Neonatal swine (Cohen, H.L.) **426**, 179

Retina; Kainic acid; Ganglion cell; Optic tectum; Trophic factor; Horseradish peroxidase (Tung, N.N.) **435**, 153

Development of release

Glutamate release; Veratridine- and potassium-induced release; Calcium dependence of release; Tetrodotoxin; Anoxia; Hypoxia; Rat (Minc-Golomb, D.) **402**, 255

Developmental neurobiology

Cell-type-specific marker; Immunocytochemistry (Ventimiglia, R.) **436**, 339

Developmental plasticity

Hippocampal mossy fiber; Early hyperthyroidism; Kainic acid receptor; Fascia dentata (Represa, A.) **423**, 325

Dexamethasone

Glucocorticoid; Acetylcholine; Physostigmine; Neuromuscular junction; Myasthenia gravis (Veldsema-Currie, R.D.) **400**, 196

Spinal cord; Hippocampus; Glucocorticoid receptor; RNAase A; Corticosterone; DNA-cellulose binding (Moses, D.F.) **408**, 118

Opioid analgesia; Hypophysectomy; β -Endorphin; Pregnancy (Baron, S.A.) **418**, 138

Dextromethorphan

Neurotoxicity; Cytotoxicity; Dextrophan; Opiate; Glutamate; Cortex; Cell culture (Choi, D.W.) **403**, 333

Dextrophan

Neurotoxicity; Cytotoxicity; Opiate; Dextromethorphan; Glutamate; Cortex; Cell culture (Choi, D.W.) **403**, 333

Diabetes

Autonomic (sympathetic) neuropathy; Neuroaxonal dystrophy; Dopamine- β -hydroxylase; Axonal transport (Schmidt, R.E.) **401**, 142

Diabetes mellitus

Aldose reductase; Axonal transport; Neuropathy; Streptozotocin; Substance P (Robinson, J.P.) **426**, 339

Diacylglycerol

Seizure; Phosphatidylinositol; Free fatty acid; Triacylglycerol; Rat (Yoshida, S.) **412**, 114

Diagonal band of Broca

Descending pathway; Substantia innominata; *Phaseolus vulgaris* leucoagglutinin (Tomimoto, H.) **425**, 248

Diaphragm

Choline acetyltransferase; Acetylcholinesterase; Aging; Mouse; Limb muscle (Washio, H.) **416**, 69

Forskolin; Soman; Compound action potential (Bradley, R.J.) **425**, 401

Diazepam

Cholecystokinin; γ -Aminobutyric acid; Glutamate; Picrotoxin; Kynurenic acid (Yaksh, T.L.) **406**, 207

Brain metabolism; Caffeine; Methylxanthine; Benzodiazepine; 2-[¹⁴C]deoxyglucose (Nehlig, A.) **419**, 272

Analgesia; Aversion; Periaqueductal gray; Electrical stimulation; Tail-flick (Morgan, M.M.) **423**, 395

Benzodiazepine antagonist; Ro 15-1788; Benzodiazepine receptor; Epileptic chicken; Anticonvulsant activity (Pedder, S.C.J.) **424**, 139

Heat stress; 5-Hydroxytryptamine level; Blood–brain barrier permeability; Cerebral blood flow; *p*-Chlorophenylalanine; Indomethacin; Cyproheptadine; Vinblastine (Sharma, H.S.) **424**, 153

Hippocampus; Rhythmic slow-wave activity; Theta rhythm; Acetylcholine; Locomotion (Caudarella, M.) **435**, 202

Dichotomizing fiber

Dorsal root ganglion cell; Functional morphology; Slowly conducting fiber; Intracellular horseradish peroxidase; Soma size distribution (Hoheisel, U.) **423**, 269

Diencephalon

Catecholamine; Cell body;
Distribution; Fetus; Histochemistry
method (Su, H.-S.) **409**, 367

Angiotensin II binding; Human brain;
Lamina terminalis; Receptor
(McKinley, M.J.) **420**, 375

Diethyldithiocarbamate

Aldehyde dehydrogenase inhibitor;
Disulfiram; Indole-3-acetaldehyde;
Tryptophan hydroxylase;
5-Hydroxyindole-3-acetaldehyde
(Nilsson, G.E.) **409**, 374

2,-(2,6-Diethylphenylamino)-2-imidazoline hydrochloride

Startle; α_2 -adrenergic agonist;
Cyclic adenosine monophosphate;
Pertussis toxin (Kehne, J.H.) **406**, 87

Differences between motoneurons

Trigeminal motor nucleus; Horseradish
peroxidase (Yoshida, A.) **416**, 393

Differential labeling

[^3H]Leucine; [^3H]Proline; Protein
synthesis; Cat brain (Elam, J.S.)
413, 129

Differential Pavlovian conditioning

Auditory cortex; Bradycardia;
Corticothalamic pathway; Medial
geniculate; Rabbit; Response inhibition
(Jarrell, T.W.) **412**, 285

Differential reinforcement of low response rate (DRL)

Hippocampal transplant; Hippocampal
lesion; Operant behavior; Recovery of
function (Woodruff, M.L.) **408**, 97

Differentiation

Nervous system injury; PH; $p\text{O}_2$; Brain
cell culture; Neuron; Astrocyte;
Neurofilament protein; Glial fibrillary
acidic protein (Bologa, L.) **411**, 282

Autoradiography; Choline
acetyltransferase; Cognition;
Neuroblastoma; Transplantation
(Kordower, J.H.) **417**, 85

Diffuse noxious inhibitory control

Spinal dorsal horn neuron;
Nociception; Descending inhibition;
Cat (Morton, C.R.) **410**, 347

Diffuse receptive field

Area 18; Cat neocortex; Single neuron
(Albus, K.) **410**, 199

Diffusion of dopamine

Brain slice; Voltammetry; Dopamine
overflow; Uptake of dopamine
(Kelly, R.S.) **423**, 79

Digging

Rat; Hypothalamus; Grooming;
Circling; Electrical brain stimulation;
Discriminant analysis; Mapping
(Lammers, J.H.C.M.) **418**, 1

Digit movement

Red nucleus; Rubrospinal; Single unit;
Microelectrode; Motor control;
Monkey (Kennedy, P.R.) **417**, 185

Digital imaging technique

Pituitary gland; Neurohypophysis;
Neurosecretion; Exocytosis; Secretory
granule; Stimulation-secretion coupling;
Xenopus (Terakawa, S.) **435**, 380

Dihydropyridine receptor

Calcium antagonist; Calcium channel;
Chirality; Catecholamine release;
Adrenal medulla (Fonteriz, R.I.)
408, 359

Dihydropyridine

Hippocampus; Frontal cerebral cortex;
Spontaneously hypertensive rat (SHR);
Senescence; PN 200-110 (Huguet, F.)
412, 125

BAY K 8644; Neuromuscular junction;
Endplate potential; Miniature endplate
potential; Calcium channel agonist
(Atchison, W.D.) **419**, 315

Bay K8644; Nicardipine; Hippocampus;
Spontaneously hypertensive rat;
Acetylcholine (Brisac, A.-M.) **435**, 160

Dihydrotestosterone

Sexual behavior; Androgen
metabolism; Japanese quail
(Deviche, P.) **421**, 105

Dihydroxyphenylacetic acid

Alzheimer's disease; Neocortex;
Serotonin; 5-Hydroxyindoleacetic acid;
Noradrenaline;
3-Methoxy-4-hydroxyphenylglycol;
Dopamine; Homovanillic acid; Choline
acetyltransferase (Palmer, A.M.)
401, 231

Dihydroxyphenylacetic acid (DOPAC)

Tuberoinfundibular neuron; Dopamine;
Median eminence; Sex difference;
Prolactin; Stress (Lookingland, K.J.)
419, 303

2,4-Dihydroxyphenylacetic acid

Spider toxin; Glutamate binding
activity; Mechanism of biological
action; Effect of ferric ion
(Pan-Hou, H.) **418**, 198

3,4-Dihydroxyphenylacetic acid

Tuberoinfundibular dopamine neuron;
Median eminence; Arcuate nucleus
stimulation; γ -Butyrolactone; Prolactin
(Lookingland, K.J.) **436**, 161

3,4-Dihydroxyphenylacetic acid

p-Tyramine; *M*-Tyramine; *p*-Tyrosine;
Dopamine; Homovanillic acid;
Mesolimbic system; Pargyline
(Sardar, A.) **412**, 370

3,4-Dihydroxyphenylacetic acid (DOPAC)

Tail-pinch; Nucleus accumbens;
Prefrontal cortex; Minor tranquilizer
(D'Angio, M.) **409**, 169

1-Methyl-4-phenyl-1,2,3,6-
tetrahydropyridine (MPTP);
1-Methyl-4-phenylpyridinium ion
(MPP $^{+}$); Dopamine; Push-pull
perfusion; Caudate nucleus;
Parkinsonism (Chang, G.D.) **424**, 49

Dihydroxyphenylalanine

Retina; Dopamine; Light
(Brainard, G.C.) **424**, 199

3,4-Dihydroxyphenylalanine (DOPA)

Dopamine; NSD-1015; Tyrosine
hydroxylase; Ventral tegmental area;
Nucleus accumbens; Striatum;
Olfactory tubercle; Brain-stimulation
reward; Food reward (Phillips, A.G.)
402, 109

1-threo-3,4-Dihydroxyphenylserine (1-threo-DOPS)

Noradrenaline; Spinal trigeminal
nucleus; Single neuron (Sasa, M.)
420, 157

5,6-Dihydroxytryptamine

Methamphetamine; Neurotoxicity;
Serotonin; Hippocampus; Psychomotor
stimulant (Commings, D.L.) **403**, 7

Para-chloroamphetamine; Serotonin;
Neurotoxicity; Hippocampus;
Somatosensory cortex; Striatum
(Commings, D.L.) **419**, 253

5,7-Dihydroxytryptamine

Feeding behavior; Aversive
conditioning; 'Lip-CNS' preparation;
Intracellular recording (Balaban, P.M.)
404, 201

Dorsomedial nucleus of the
hypothalamus; Electrical stimulation;
5-Hydroxytryptamine synthesis;
Intermediate lobe; Neural lobe;
Pituitary gland; Raphe nuclei
(Shannon, N.J.) **416**, 322

Dorsal lateral geniculate nucleus;
Dorsal raphe nucleus; Serotonin
inhibition (Marks, G.A.) **418**, 76

Estrogen receptor; Hypothalamus;
Lordosis; Progesterin receptor; Serotonin
(Luine, V.N.) **426**, 47

5-Hydroxytryptamine; In vivo labeling;
5-Hydroxytryptamine neuron; *Aplysia*
(Jahan-Parwar, B.) **426**, 173

5,7-Dihydroxytryptamine (5,7-DHT)

Serotonin (5-HT); Receptor;
Hypothalamus; Regeneration; Plasticity
(Frankfurt, M.) **419**, 216

Serotonin, receptor; Serotonin,
receptor; Ketanserin;
Serotonin-mediated behavior;
Quantitative autoradiography
(Fischette, C.T.) **421**, 263

[^3H]Dihydroalprenolol

α_1 -Adrenoceptor; α_2 -Adrenoceptor;
 β -Adrenoceptor; Distribution;
[^3H]Prazosin; [^3H]Idazoxan;
Catecholamine (Diop, L.) **402**, 403

Sertraline; Serotonin; β -Adrenergic; In
vitro receptor autoradiography
(Byerley, W.F.) **421**, 377

Diltiazem

Analgesia; Activity; Stress;
Stress-induced analgesia; Calcium

channel antagonist; Nifedipine; Verapamil; BAY K 8644; Opioid analgesia (Kavaliers, M.) **408**, 403

Dilution

Solubilization; Opioid receptor; Glycodeoxycholate/NaCl; Receptor type (Maruyama, M.) **401**, 14

Dipeptide

Astroglial cell; Neonatal brain; Tissue culture; Dipeptidyl peptidase; Mercurial (Stevens, B.R.) **406**, 113

Optic tract; Lateral geniculate nucleus; Superior colliculus; Retina; Immunohistochemistry; High-performance liquid chromatography (Anderson, K.J.) **411**, 172

N-Acetylaspartylglutamate (NAAG); Neuroexcitant; Purkinje cell; Cerebellum (Sekiguchi, M.) **423**, 23

Dipeptidyl peptidase

Astroglial cell; Neonatal brain; Tissue culture; Mercurial; Dipeptide (Stevens, B.R.) **406**, 113

Dipping autoradiography

Dopamine receptor; [³H]*N*-*n*-propylnorapomorphine; Striosome; Acetylcholinesterase histochemistry; In vivo ligand binding (Loopuijt, L.D.) **405**, 405

Direction selectivity

Accessory optic system; Optic tract nucleus; Optokinetic nystagmus; Pretectum (Natal, C.L.) **419**, 320

Direction sensitivity

Superior colliculus; Somatosensory; Cat; Tactile (Clemon, H.R.) **405**, 313

Directional selectivity

Visual system; Pretectum; Ipsilateral retinal afferent; Contralateral retinal afferent (Sperl, M.) **404**, 332

Somatosensory cortex; Periodontal mechanosensitive neuron; Sensory adaptation; Interaction of afferent inputs (Taira, K.) **409**, 52

Directionally selective ganglion cell

Starburst amacrine cell; Cholinergic neuron; Retina; Cat; Rabbit (Famiglietti, E.V.) **413**, 404

Discrete burst

Inositol 1,4,5-trisphosphate; Photoreceptor; Calcium; Aequorin; Microinjection (Corson, D.W.) **423**, 343

Discriminant analysis

Rat; Hypothalamus; Grooming; Digging; Circling; Electrical brain stimulation; Mapping (Lammers, J.H.C.M.) **418**, 1

Discrimination

Cortex; Parietal cortex; Somatosensory cortex; Ablation; Temperature; Lemniscal; Extralemniscal (Porter, L.H.) **412**, 54

Discriminative binding property

Opioid receptor; Selective ligand; δ -Enkephalin analogue; Parkinson's disease; Human brain (Delay-Goyet, P.) **414**, 8

Disinhibition

Medial septum; Hippocampus; Perforant path; Commissure; Granule cell; Interneuron (Bilkey, D.K.) **405**, 320

Disparity-sensitive neuron

Visual cortex; Corpus callosum; Binocular interaction; Stereopsis; Depth perception; Nasotemporal overlap; Ocular dominance; Cat (Gardner, J.C.) **413**, 60

Disruption

Adriamycin; Blood-brain barrier; Mannitol; Neurotoxicity; Chemotherapy; Rat (Kondo, A.) **412**, 73

Dissociated cell culture

Spinal cord; Motoneuron; Mouse; Choline acetyltransferase; Glutamic acid decarboxylase (Guthrie, P.B.) **420**, 313

Distribution

Motoneuron; Accessory nerve; Morphology; Cobaltic lysine; Japanese toad (Oka, Y.) **400**, 383

Preganglionic parasympathetic neuron; Dorsal motor nucleus; Salivatory nucleus; Morphology; Cobaltic lysine; Japanese toad (Oka, Y.) **400**, 389

α_1 -Adrenoceptor; α_2 -Adrenoceptor; β -Adrenoceptor; [³H]Prazosin; [³H]Idazoxan; [³H]Dihydroalprenolol; Catecholamine (Diop, L.) **402**, 403

Catecholamine; Cell body; Dienecephalon; Fetus; Histochemistry method (Su, H.-S.) **409**, 367

Neuropeptide Y; Cat; Spinal cord; Autonomic nucleus; Colchicine (Krukoff, T.L.) **415**, 300

Disulfiram

Aldehyde dehydrogenase; Anesthesia; Barbiturate; Hexobarbital; Noradrenaline; Serotonin; Sleeping-time (Nilsson, G.E.) **409**, 265

Aldehyde dehydrogenase inhibitor; Diethylthiocarbamate; Indole-3-acetaldehyde; Tryptophan hydroxylase; 5-Hydroxyindole-3-acetaldehyde (Nilsson, G.E.) **409**, 374

Dithiothreitol

Epileptiform activity; Hippocampus; Sulfhydryl reagent; Radioprotectant (Tolliver, J.M.) **404**, 133

Diuresis

Ischemia; Edema; Hyperosmotic agent; U-50488H (Silvia, R.C.) **403**, 52

Diurnal rhythm

Gap junction; Electrotonic synapse; PH (Moreno, A.P.) **400**, 181

Rhesus monkey; Corticotrophin-releasing hormone; Cerebrospinal fluid; Adrenocorticotrophic hormone (ACTH) (Kalin, N.H.) **426**, 385

Diurnal rhythms

Cortical transplant; Suprachiasmatic nuclei lesion; Central nervous system plasticity (García-Hernández, F.) **418**, 193

Divalent cation

γ -Aminobutyric acid (GABA); Primary afferent depolarization; Calcium (Curtis, D.R.) **422**, 192

DNA-cellulose binding

Spinal cord; Hippocampus; Glucocorticoid receptor; RNAase A; Corticosterone; Dexamethasone (Moses, D.F.) **408**, 118

DOCA/NaCl hypertension

Quinpirole (LY171555); Dopamine D₂ agonist; Presynaptic regulatory mechanism; Central dopaminergic activity; High performance liquid chromatography (HPLC) (Chen, Y.-F.) **413**, 15

Dog

Cholecystokinin octapeptide; Cholecystokinin receptor antagonist; Feeding behavior; Blood-brain barrier; Cerebrospinal fluid (CSF) (Inui, A.) **417**, 355

1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP); Terminal degeneration; Nigrostriatal; Dopamine; Mosaic; Fink-Heimer; Striatum (Wilson, J.S.) **423**, 329

Dolphin brain

Blood-brain barrier; Glia; Tight junction; Gap junction; Brain capillary; Angioarchitectonics; Gloioarchitectonics; Gloio-glial junction; Astroglia-like cell (Glezer, I.I.) **414**, 205

Domestic chicken

Avian; Forebrain; Neurotransmitter amino acid; Inhibitory synapse (Csillag, A.) **437**, 283

L-DOPA decarboxylase

Immunohistochemistry; L-Histidine decarboxylase; Amacrine cell; Horizontal cell; Histaminergic neuron; Neurotransmitter; Guinea pig (Ando-Yamamoto, M.) **410**, 269

Dopamine

Ascorbic acid; Methamphetamine; Serotonin; Substance P (Matsuda, L.A.) **400**, 176

Food deprivation; Frontal cortex; Mesocortical; Stress; Ventral tegmental area (Carlson, J.N.) **400**, 200

Substantia nigra; Globus pallidus; Autoreceptor; Dopamine agonist; D₁ receptor; D₂ receptor; Single unit recording (Carlson, J.H.) **400**, 205

- Prolactin; Sulpiride; Apomorphine; Adrenal gland; Sodium (Collu, R.) **401**, 23
- Alzheimer's disease; Neocortex; Serotonin; 5-Hydroxyindoleacetic acid; Noradrenaline; 3-Methoxy-4-hydroxyphenylglycol; Dihydroxyphenylacetic acid; Homovanillic acid; Choline acetyltransferase (Palmer, A.M.) **401**, 231
- Narcolepsy; Receptor; Sleep (Bowersox, S.S.) **402**, 44
- 3,4-Dihydroxyphenylalanine (DOPA); NSD-1015; Tyrosine hydroxylase; Ventral tegmental area; Nucleus accumbens; Striatum; Olfactory tubercle; Brain-stimulation reward; Food reward (Phillips, A.G.) **402**, 109
- Nucleus accumbens; Neostriatum; *cis*-Flupenthixol; Locomotor activity; Rat (Ahlenius, S.) **402**, 131
- 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP); Motor function; Amine accumulation; Nigrostriatal degeneration (Willis, G.L.) **402**, 269
- Noradrenaline; Catecholamine; Amine accumulation; 6-Hydroxydopamine; Neurochemical specificity (Willis, G.L.) **403**, 15
- Aging; Parkinson's disease; Neurotoxicity; Substantia nigra; Cell degeneration (Ricaurte, G.A.) **403**, 43
- Norepinephrine; Anteroventral third cerebral ventricle (AV3V); Catecholamine; Angiotensin II; Drinking; Blood pressure; 6-Hydroxydopamine (Bellin, S.I.) **403**, 105
- Kindling; Experimental epilepsy; Amygdala; Noradrenaline; Serotonin (Lewis, J.) **403**, 205
- Cysteamine; Somatostatin; Norepinephrine; Cerebrospinal fluid (CSF); Memory; Activity; Rat (Haroutunian, V.) **403**, 234
- Tyrosine hydroxylase; γ -Aminobutyric acid; Glutamic acid decarboxylase; Coexistence; Olfactory bulb; Postnatal development; Immunohistochemistry (Kosaka, K.) **403**, 355
- Limbic system; S(+)-Methylenedioxynorpropylnoraporphine (Campbell, A.) **403**, 393
- In vivo electrochemistry; Nigrostriatal neuron (El Ganouni, S.) **404**, 239
- Stereotyped behavior; Apomorphine; Neurotensin; Cholecystokinin; Nucleus accumbens (Blumstein, L.K.) **404**, 293
- Electrophysiology; Apomorphine; Cholecystokinin; Freely moving rat; Midbrain (Freeman, A.S.) **405**, 46
- Lateral hypothalamus; Single neuron activity; Monkey; Electrophoresis; Noradrenaline; Operant feeding; Cue response; Reward (Nishino, H.) **405**, 56
- Substantia nigra pars reticulata; 6-Hydroxydopamine; Nigrostriatal lesion; D₁-receptor; D₂-receptor; Single unit recording (Weick, B.G.) **405**, 234
- Progesterone; Corpus striatum; In vitro; Female rat; Amphetamine (Dluzen, D.E.) **406**, 1
- Noradrenaline; Ventral tegmental area; Septum; Frontal cortex; Attention; Conditioned blocking; Active avoidance (Oades, R.D.) **406**, 136
- Cyclic AMP; Cyclic GMP; Muscarinic response; Acetylcholine; Phosphodiesterase inhibitor (Tsunoo, A.) **407**, 55
- Cholecystokinin; Caudatoputamen; Cerebral cortex; Acetylcholine; γ -Aminobutyric acid; Leucine enkephalin (Gysling, K.) **407**, 110
- Arterial chemoreceptor; Spike train analysis (Donnelly, D.F.) **407**, 195
- Recovery of function; Ventromedial hypothalamic nucleus; Defensive attack; Lateral septum; Gating mechanism (Maeda, H.) **407**, 381
- Lateral habenula; Kainic acid; Stereotypic behavior; Haloperidol; Behavioral hypersensitivity (Carvey, P.M.) **409**, 193
- Central amygdala; Neurotensin; Stress ulcer (Ray, A.) **409**, 398
- Striatonigral neuron; D₁ receptor; Substantia nigra; Neostriatum; Quinolinic acid; [¹²⁵I]SCH 23982; SCH 23390; Denervation (Altar, C.A.) **410**, 1
- Amphetamine rotation; M₁ and M₂ muscarinic receptors; Acetylcholine (Hagan, J.J.) **410**, 69
- Proglumide; Cholecystokinin; Electrophysiology; Iontophoresis; Neuromodulation (Chiodo, L.A.) **410**, 205
- Drinking; Angiotensin; Minipig (Thornton, S.N.) **410**, 401
- Striatum; Caudate nucleus; Basal ganglia; [¹⁴C]Deoxyglucose; Glucose utilization; Apomorphine (Brown, L.L.) **411**, 65
- Serotonin; Dorsal raphe; In vivo voltammetry; Kainic acid (De Simoni, M.G.) **411**, 81
- Tuberoinfundibular neuron; Prolactin; Pituitary tumor; Aging; Estrogen (Phelps, C.J.) **411**, 108
- Met-enkephalin; Leu-enkephalin; Substance P; Cholecystokinin; Postmortem; Human brain; Progressive supranuclear palsy (Taquet, H.) **411**, 178
- Somatostatin; Neuropeptide Y; Amphetamine; Caudate nucleus; Push-pull perfusion (Tatsuoka, Y.) **411**, 200
- Asymmetry; Basal ganglia; Circling; Hemispheric dominance; Laterality; Striatum (Bracha, H.S.) **411**, 231
- γ -Aminobutyric acid (GABA); Apomorphine; Basal ganglion; Supersensitivity; Sham-fighting behavior (Sivam, S.P.) **412**, 29
- Locomotor activity; Nucleus accumbens; Ventral pallidum; Disomedial nucleus of the thalamus; Medial prefrontal cortex; Pedunculopontine nucleus; Apomorphine; Picrotoxin; Behavior (Swerdlow, N.R.) **412**, 233
- p*-Tyramine; *M*-Tyramine; *p*-Tyrosine; 3,4-Dihydroxyphenylacetic acid; Homovanillic acid; Mesolimbic system; Pargyline (Sardar, A.) **412**, 370
- Enkephalin; Substance P; Dorsal striatum; Ventral striatum; Immunoreactivity pattern (Voorn, P.) **412**, 391
- Microdialysis; Interval feeding; Striatum; Behavior; HPLC/EC (Church, W.H.) **412**, 397
- Ventral tegmental area; Monkey; Single neuron activity; Feeding; Motor; Motivation; Vocalization (Nishino, H.) **413**, 302
- Alzheimer's disease; Neocortex; Catecholamine; Noradrenaline; Acetylcholine; Human brain (Palmer, A.M.) **414**, 365
- Conditioned place preference; Opioid reward; Microinjection; Morphine; Reward system; Ventral tegmental area (Bozarth, M.A.) **414**, 77
- 6-Hydroxydopamine; Transplant; Limb use; Paw use; Rotation (Dunnett, S.B.) **415**, 63
- Spontaneously hypertensive rat (SHR); Neurochemistry; Sympathetic ganglion; Neuropeptide; Cyclic nucleotide (Ariano, M.A.) **415**, 115
- Antipsychotic drug; Schizophrenia; Dopamine neuron; Ventral tegmental area; Substantia nigra (Hand, T.H.) **415**, 257
- 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP); Parkinson's disease; African Green monkey; Ventral tegmental area; Mesolimbic; Nigrostriatal; Cerebrospinal fluid; Homovanillic acid; 3-Methoxy-4-hydroxyphenylglycol (MHPG) (Elsworth, J.D.) **415**, 293
- Acetylcholinesterase; Basal ganglion; Catecholamine; Huntington's disease;

Immunohistochemistry (Ferrante, R.J.) **416**, 141

Ciliary ganglion; Catecholamine; Tyrosine hydroxylase; Immunohistochemistry; Fluorescence histochemistry; Mammal (Uemura, Y.) **416**, 200

p-Chlorophenylalanine (PCPA); Serotonin (5-HT); 5-Hydroxyindoleacetic acid (5-HIAA); Catecholamine turnover; Noradrenaline; Estrogen; Luteinizing hormone (LH) surge (Burri, R.) **416**, 267

Amygdala; Brain nucleus; Turnover; Limbic system; α -Methyltyrosine; Norepinephrine (Kilts, C.D.) **416**, 402

Ventral tegmental area; Nucleus accumbens; Morphine; Enkephalin; μ -Opioid receptor; Locomotor activity; Sensitization (Vezina, P.) **417**, 51

Stress; Neurotensin; Ventral tegmental area; Somatostatin; Corticotropin-releasing factor (Deutch, A.Y.) **417**, 350

Caudate nucleus; Dopamine receptor; Haloperidol; Intracellular recording; Slice (Akaike, A.) **418**, 262

Retina; Melatonin; Serotonin *N*-acetyltransferase; Cyclic nucleotide phosphodiesterase (Iuvone, P.M.) **418**, 314

Tuberoinfundibular neuron; Dihydroxyphenylacetic acid (DOPAC); Median eminence; Sex difference; Prolactin; Stress (Lookingland, K.J.) **419**, 303

Tyrosine-hydroxylase; Norepinephrine; Prolactin; Hyperprolactinemia; Pituitary tumor; Ectopic pituitary (Fernandez-Ruiz, J.J.) **421**, 65

Ethylcholine aziridinium ion (AF64A); Acetylcholine; Noradrenaline; Hippocampus; Alzheimer's disease (Hörtlén, H.) **421**, 75

D₁-receptor; Adenylate cyclase; Cyclic AMP; Striatum; Superior cervical ganglion (Ariano, M.A.) **421**, 245

Electrical stimulation; In vivo voltammetry; Synthesis; Metabolism; Compartment; Dynamics; Autoreceptor (Michael, A.C.) **421**, 325

Accumbens nucleus; Electron microscopy; γ -Aminobutyric acid; Immunocytochemistry; Lateral septum; Rat (Onténiente, B.) **421**, 391

Weaver mutant mouse; Dopamine D₂ receptor binding assay; [³H]Spiperone; Striatum; Nucleus accumbens; Supersensitivity (Kaseda, Y.) **422**, 178
Neurotensin; Methamphetamine; SCH 23390; Sulpiride (Letter, A.A.) **422**, 200

Enkephalin; Chicken retina; Opiate

receptor; 6-Hydroxydopamine (Su, Y.Y.T.) **423**, 63

1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP); Terminal degeneration; Nigrostriatal; Mosaic; Fink-Heimer; Dog; Striatum (Wilson, J.S.) **423**, 329

1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP); 1-Methyl-4-phenylpyridinium ion (MPP⁺); 3,4-Dihydroxyphenylacetic acid (DOPAC); Push-pull perfusion; Caudate nucleus; Parkinsonism (Chang, G.D.) **424**, 49

Aspartate; γ -Aminobutyric acid; Acetylcholine; Retina; Visual pathway; Dark adaptation; Light adaptation (Chentanez, T.) **424**, 115

Retina; Dihydroxyphenylalanine; Light (Brainard, G.C.) **424**, 199

Tuberoinfundibular dopaminergic neuron; Tuberohypophyseal dopaminergic neuron; Prolactin (Gunn, J.W.) **424**, 371

Cholecystokinin; Ventral tegmental area; Electrophysiology; Co-transmitter; In vitro slice (Brodie, M.S.) **425**, 106

Rat prefrontal cortex; Intracellular recording; In vitro slice preparation; Pyramidal cell (Penit-Soria, J.) **425**, 263

Rotation; Amphetamine; 6-Hydroxydopamine; Serotonin; Striatum; Lateralization (Shapiro, R.M.) **426**, 323

Basal ganglia; Globus pallidus; Tyrosine hydroxylase; Primate; Immunohistochemistry (Parent, A.) **426**, 397

Weaver mutant mouse; Nigral transplant; Striatum; Rotational behavior; Functional recovery; Parkinson disease (Low, W.C.) **435**, 315

Opioid; Morphine; U-69593; SCH 23390; Reinforcement; Motivation; Place conditioning (Shippenberg, T.S.) **436**, 169

Cryopreservation; Neural transplantation; Primate; Culture (Collier, T.J.) **436**, 363

Spinal cord; Liquor-contacting neuron; Elasmobranch (Roberts, B.L.) **437**, 171

Thermoregulation; Cyclo(His-Pro); Hypothermia (Prasad, C.) **437**, 345

Substantia nigra pars compacta; Striatum; Caudate nucleus; Putamen; Striosome; Acetylcholinesterase; Tyrosine hydroxylase (Jimenez-Castellanos, J.) **437**, 349

Dopamine agonist

Substantia nigra; Globus pallidus; Dopamine; Autoreceptor; D₁ receptor;

D₂ receptor; Single unit recording (Carlson, J.H.) **400**, 205

Apomorphine; Yawning; Penile erection; Paraventricular nucleus (Melis, M.R.) **415**, 98

Yawning; Penile erection; Electrolytic lesion; Paraventricular nucleus; Oxytocin; Adrenocorticotropin (Argiolas, A.) **421**, 349

[³H]Dopamine release; In vitro release; Nucleus accumbens; D₂ receptor; Apomorphine; Desenkephalin- γ -endorphin; Dopamine antagonist (Radhakishun, F.S.) **426**, 235

Dopamine antagonist

[³H]Dopamine release; In vitro release; Nucleus accumbens; D₂ receptor; Apomorphine; Desenkephalin- γ -endorphin; Dopamine agonist (Radhakishun, F.S.) **426**, 235

Dopamine autoreceptor

Lisuride; A10 neuron; Subchronic treatment (Mereu, G.) **408**, 210

Pertussis toxin; Adenylate cyclase; Substantia nigra (Innis, R.B.) **411**, 139

Dopamine cell firing

Thioridazine; Antipsychotic drug; Dopamine release; Striatum; Nucleus accumbens (Lane, R.F.) **408**, 317

Dopamine D₁ receptor

Axonal transport; Quantitative autoradiography; Striatonigral pathway ¹²⁵I-SCH 23982 (Aiso, M.) **426**, 392

Dopamine D₁ receptor binding

[³H]SKF 38393; Autoradiography; Mouse (Juhász, M.) **423**, 305

Dopamine D₂ agonist

Quinpirole (LY171555); Presynaptic regulatory mechanism; DOCA/NaCl hypertension; Central dopaminergic activity; High performance liquid chromatography (HPLC) (Chen, Y.-F.) **413**, 15

Dopamine D₂ receptor binding assay

Weaver mutant mouse; Dopamine; [³H]Spiperone; Striatum; Nucleus accumbens; Supersensitivity (Kaseda, Y.) **422**, 178

Dopamine D₂-receptor

Receptor turnover; [³H]Spiperone; Chronic neuroleptic treatment (Pich, E.M.) **435**, 147

Dopamine depletion

Parkinsonism; Mesencephalon; N-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine; Monkey (Schneider, J.S.) **411**, 144

Dopamine β -hydroxylase

Sympathetic nervous system; Bombesin; 1-Cyclohexyl-2-mercapto-imidazole; Norepinephrine turnover; Cold exposure (Brown, M.) **400**, 35

Dopamine metabolism

Nicotine; Substantia nigra lesion;
Reverse tolerance; Caudate nucleus;
Nucleus accumbens; Hypothermia;
Stereotypy (Lapin, E.P.) **407**, 351

Dopamine metabolite

Serotonin; Feeding; Satiety
(Chance, W.T.) **416**, 228

Dopamine neuron

Antipsychotic drug; Schizophrenia;
Dopamine; Ventral tegmental area;
Substantia nigra (Hand, T.H.) **415**, 257

Dopamine overflow

Brain slice; Voltammetry; Diffusion of
dopamine; Uptake of dopamine
(Kelly, R.S.) **423**, 79

Dopamine receptor

Aging; Muscarinic receptor; D₁
receptor; D₂ receptor (Rinne, J.O.)
404, 162

[³H]*N*-*n*-propylnorapomorphine;
Striosome; Dipping autoradiography;
Acetylcholinesterase histochemistry; In
vivo ligand binding (Loopuijt, L.D.)
405, 405

Spiperone binding; D₁ receptor; D₂
receptor; In vivo ligand binding
(Leslie, C.A.) **407**, 253

D₁ receptor; SCH-23390; Ibotenic acid;
6-Hydroxydopamine; Substantia nigra;
Autoradiography (Filloux, F.M.)
408, 205

Quantitative autoradiography; Brain
dopamine; Substantia nigra; Caudate
putamen; Nucleus accumbens;
Olfactory tubercle (Aiso, M.) **408**, 281

Caudate nucleus; Dopamine;
Haloperidol; Intracellular recording;
Slice (Akaike, A.) **418**, 262

Dopamine receptor subtype

Aging; Motor function; Biosynthesis
(Henry, J.M.) **418**, 334

Substance P; Sulpiride; SCH 23390;
Selective regulation; Striatum;
Substantia nigra; Progabide (Oblin, A.)
421, 387

Dopamine release

Amphetamine; Intracerebral dialysis;
Microdialysis; Stereotypy; Locomotor
activity; Striatum; Nucleus accumbens
(Sharp, T.) **401**, 322

Thioridazine; Antipsychotic drug;
Striatum; Nucleus accumbens;
Dopamine cell firing (Lane, R.F.)
408, 317

Mianserin; Citalopram; Adrenoceptor;
Nucleus accumbens; Striatum
(Russell, V.A.) **410**, 78

Basal hypothalamus;
Neurointermediate lobe; Median
eminence; D₂-dopamine receptor
(Planté, J.F.) **413**, 205

Neurotensin; Modulation;
Desipramine; Nucleus accumbens

(Reyneke, L.) **425**, 114

[³H]Dopamine release

[³H]Noradrenaline release; Amygdala
slice in vitro; 4 β -Phorbol
12,13-dibutyrate; 4 α -Phorbol
12,13-didecanoate; Polymyxin B
(Versteeg, D.H.G.) **416**, 343

In vitro release; Nucleus accumbens;
D₂ receptor; Apomorphine;
Desenkephalin- γ -endorphin; Dopamine
agonist; Dopamine antagonist
(Radhakishun, F.S.) **426**, 235

Dopamine synthesis

Fluoxetine; 5-Hydroxytryptamine
synthesis; Neurointermediate lobe;
Pituitary gland; Platelets; Tryptophan
(Shannon, N.J.) **402**, 287

Dopamine target cell supersensitivity

Dopaminergic denervation; Striatum;
Acetylcholine level; D₂-receptor
(Paturle, L.) **402**, 383

Dopamine turnover

A10 dopamine neuron; Enkephalin;
Footshock; Ventral tegmental area
(Kalivas, P.W.) **414**, 339

Dopamine uptake

Aging; Rat strain; Cholinergic index;
Stress (Gilad, G.M.) **408**, 247

Autonomic (sympathetic) neuropathy;
Diabetes; Neuroaxonal dystrophy;
Axonal transport (Schmidt, R.E.)
401, 142

Colocalization; Neuropeptide Y;
5-Hydroxytryptamine; Intracardiac
neuron; Heart; Tissue culture
(Hassall, C.J.S.) **422**, 74

Dopamine-sensitive adenylate cyclase

Light-dark adaptation; Chronic SCH
23390; D₁ dopamine receptor; [³H]SCH
23390 binding; Retina
(Porceddu, M.L.) **424**, 264

Dopamine-sensitive adenylate cyclase activity

Estradiol; Ovariectomy; Male mouse;
Female mouse; Dopamine-stimulation
(Tang, L.C.) **405**, 178

Dopamine-stimulation

Dopamine-sensitive adenylate cyclase
activity; Estradiol; Ovariectomy; Male
mouse; Female mouse (Tang, L.C.)
405, 178

Dopaminergic agonist

Melanocyte-stimulating hormone;
 β -Endorphin;
Proopiomelanocortin-containing
neuron; Dopaminergic antagonist;
Hypothalamus; High-performance
liquid chromatography; Perfusion
(Delbende, C.) **423**, 203

Dopaminergic antagonist

Melanocyte-stimulating hormone;
 β -Endorphin;
Proopiomelanocortin-containing

neuron; Dopaminergic agonist;
Hypothalamus; High-performance
liquid chromatography; Perfusion
(Delbende, C.) **423**, 203

Dopaminergic denervation

Dopamine target cell supersensitivity;
Striatum; Acetylcholine level;
D₂-receptor (Paturle, L.) **402**, 383

Dopaminergic neuron

Dwarf mouse; Tyrosine hydroxylase;
Immunocytochemistry; Prolactin
(Phelps, C.J.) **416**, 354

Antidromic activation; Medial
forebrain bundle; Neostriatum; In vivo
voltammetry; Unit activity
(Kuhr, W.G.) **418**, 122

Dopaminergic nigrostriatal system

Electrical stimulation; Pain suppression
system; Local cerebral glucose
utilization; Parafascicular nucleus; VPL
nucleus (Aiko, Y.) **408**, 47

Dopaminergic system

Defence reaction; Ventromedial
hypothalamus; A10 region; Inhibition;
Sulpiride (Piazza, P.V.) **413**, 356

Dopaminergic System Activity

LY171555 (Quinpirole);
Metoclopramide; Striatum;
Desoxycorticosterone acetate
(DOCA)/NaCl-hypertensive rat; In
vivo push-pull perfusion;
High-performance liquid
chromatography (HPLC) (Chen, Y.-F.)
400, 225

Dorsal bundle lesion

Noradrenaline; 6-Hydroxydopamine;
Medullary A₁ lesion; Locus coeruleus
lesion; Morphine analgesia; Tail flick
test; Hot plate test; Pressure test
(Sawynok, J.) **419**, 156

Dorsal cochlear nucleus

γ -Aminobutyric acid (GABA);
Glycine; Strychnine (Casparv, D.M.)
417, 273

Dorsal column nucleus

Cochlear nucleus; Spinal trigeminal
nucleus; Cat; Wheat germ agglutinated
horseradish peroxidase (WGA-HRP)
(Itoh, K.) **400**, 145

Cholecystokinin; Thalamus;
Ventroposterolateral nucleus;
Immunocytochemistry (Hunt, C.A.)
426, 257

Dorsal horn

Spinal cord; Nociceptive neuron;
Inhibition; Muscle afferent; GABA;
Bicuculline (Morris, R.) **401**, 365

Enkephalin; Analgesia; Peptidase
inhibitor; Kelatorphan
(Dickenson, A.H.) **408**, 185

Capsaicin; Spinal cord; Sural nerve;
Somatosensory system; Afferent fiber
(Tattersall, J.E.H.) **416**, 337

Spinothalamic tract; Trigeminothalamic
tract; Opioid peptide; Nociception

(Coffield, J.A.) **425**, 380

Dorsal horn neuron

C-fiber activation; Serotonergic descending inhibitory system; Cinanserin; Methysergide; Nociception (Rivot, J.P.) **403**, 142

Dorsal horn response

Pertussis toxin; Primary afferent network; Spinal cord culture; Opioid network; Adenylate cyclase/cyclic AMP system (Crain, S.M.) **400**, 185

Dorsal lateral geniculate nucleus

Bird; Relay neuron; Retinal terminal; Wulst terminal; Synaptic glomerulus (Watanabe, M.) **401**, 279

Complex convolution; Rat (Satorre, J.) **404**, 231

Dorsal raphe nucleus; Serotonin inhibition; 5,7-Dihydroxytryptamine (Marks, G.A.) **418**, 76

Pretectum; Retina; Retinotopic map; Cat; Wheat germ agglutinin-horseradish peroxidase (WGA-HRP) (Kubota, T.) **421**, 30

Superior colliculus; Ventral lateral geniculate nucleus; Nucleus lateralis posterior; Parabigeminal nucleus; Pretectal area (Lugo-Garcia, N.) **426**, 131

Dorsal motor nucleus

Preganglionic parasympathetic neuron; Salivatory nucleus; Morphology; Distribution; Cobaltic lysine; Japanese toad (Oka, Y.) **400**, 389

Dorsal motor nucleus of the vagus

Area postrema; Nucleus tractus solitarius; Blood pressure; Heart rate (Averill, D.B.) **414**, 294

Dorsal noradrenergic bundle

6-Hydroxydopamine; Noradrenaline; α_2 -Adrenoceptor; β_1 -Adrenoceptor; Neocortex; Rat (Dooley, D.J.) **420**, 152

Dorsal raphe

Non-serotonergic; Intracellular recording; Intracellular horseradish peroxidase; Neuron type; Computer reconstruction (Park, M.R.) **402**, 117

Brainstem; Thermoregulation (Keenan, C.L.) **410**, 189

Serotonin; In vivo voltammetry; Dopamine; Kainic acid (De Simoni, M.G.) **411**, 81

Dorsal raphe nucleus

Dorsal lateral geniculate nucleus; Serotonin inhibition; 5,7-Dihydroxytryptamine (Marks, G.A.) **418**, 76

Dorsal rhizotomy

Lamina X; Serotonin; Enkephalin; Substance P; True blue; Hemisection (Nahin, R.L.) **401**, 292

Dorsal root

Renal afferent nerve: antidromic

activation; Myelinated axon; Unmyelinated axon (Knuepfer, M.M.) **435**, 167

Dorsal root ganglion

Ventral root; Afferent fiber; Bifurcation projection; Calcitonin gene-related peptide; Rat (Fang, X.-B.) **402**, 393

Cell membrane expansion; Tissue culture; Neuron; Inhibition of action potential; 2-Decenoic acid; Fatty acid; Adult mouse (Horie, H.) **411**, 298

Tissue culture; Neuron; Taxol; Colchicine; Axonal transport; Adult mouse; Microtubule (Horie, H.) **420**, 144

Axonal transport; Doxorubicin; Anthracycline antibiotic; Motoneuron; Peripheral nervous system (Borges, L.F.) **426**, 367

Prednisolone; γ -Aminobutyric acid receptor; Sensitivity; Bullfrog (Ariyoshi, M.) **435**, 241

Dorsal root ganglion cell

Ventral root afferent; Collision technique; Refractory period; Unmyelinated fiber; Single unit activity (Kim, J.) **417**, 304

Functional morphology; Slowly conducting fiber; Dichotomizing fiber; Intracellular horseradish peroxidase; Soma size distribution (Hoheisel, U.) **423**, 269

Dorsal rostral pons

Vasoconstriction; Sympathetic nervous system; Pituitary; Brainstem; Cardiovascular signal; Periaqueductal gray (Ward, D.G.) **407**, 369

Arterial pressure; Blood volume; Body weight; Brainstem; Locus coeruleus (Ward, D.G.) **423**, 373

Dorsal spinal cord

Serotonin; Analgesia; Nociception; Raphe nucleus; *p*-Chlorophenylalanine; Motoneuron; Electrochemical detection (Steinman, J.L.) **426**, 297

Serotonin; Raphe nucleus; Ventral spinal cord; Image analysis (Carlton, S.M.) **426**, 310

Dorsal striatum

Dopamine; Enkephalin; Substance P; Ventral striatum; Immunoreactivity pattern (Voorn, P.) **412**, 391

Dorsal tegmental nucleus

α -Enkephalin; Ventral tegmental nucleus; Fiber connection; Mammillary body; Interpeduncular nucleus; Immunocytochemistry; Rat (Yamano, M.) **408**, 22

Dorsal ventricular ridge

Co-occurrence; Cortex; Basal ganglion; Somatostatin; Neuropeptide Y; Evolution; Turtle (Reiner, A.) **426**, 149

Dorsolateral funiculus

Pain; Spinal cord; Met-enkephalin release (Le Bars, D.) **412**, 190

Dorsomedial nucleus

Ventromedial hypothalamus; Zucker rat; Brown adipose tissue; Sympathetic efferent; Supraoptic nucleus; Lateral hypothalamus (Holt, S.J.) **405**, 227

Dorsomedial nucleus of the hypothalamus

5,7-Dihydroxytryptamine; Electrical stimulation; 5-Hydroxytryptamine synthesis; Intermediate lobe; Neural lobe; Pituitary gland; Raphe nuclei (Shannon, N.J.) **416**, 322

Dorsomedial nucleus of the thalamus

Locomotor activity; Dopamine; Nucleus accumbens; Ventral pallidum; Medial prefrontal cortex; Pedunculopontine nucleus; Apomorphine; Picrotoxin; Behavior (Swerdlow, N.R.) **412**, 233

Double labeling

Glycine; Cochlear Nucleus; Immunocytochemistry; Retrograde labeling (Wentholt, R.J.) **415**, 183

Choline acetyltransferase; Edinger-Westphal nucleus; Anteromedian nucleus; Oculomotor nucleus; Ciliary ganglion; Immunocytochemistry; Retrograde transport (Strassman, A.) **423**, 293

Collateralization; Corticostriate neuron; Motor cortex; Sensory cortex (McGeorge, A.J.) **423**, 318

Double staining

Mirror technique; Nigrostriatal; Synaptic interaction; Tyrosine hydroxylase; Substance P (Kawai, Y.) **401**, 371

Double-label immunocytochemistry

Neuroanatomical tracing; *Phaseolus vulgaris*-leucoagglutinin (PHA-L); Histamine; Histidine decarboxylase; Prefrontal cortex; Hypothalamus; Limbic system (Wouterlood, F.G.) **406**, 330

Down-regulation

Tryptamine; Receptor binding; Monoamine oxidase inhibitor; Clorgyline; Frontal/parietal cortex; Chronic treatment (Martin, L.L.) **419**, 239

C₆ cell; Opioid receptor; Appearance; β -Receptor (Reggiani, A.) **423**, 254

Doxorubicin

Axonal transport; Anthracycline antibiotic; Dorsal root ganglion; Motoneuron; Peripheral nervous system (Borges, L.F.) **426**, 367

Drinking

Norepinephrine; Anteroventral third cerebral ventricle (AV3V); Catecholamine; Dopamine; Angiotensin II; Blood pressure;

6-Hydroxydopamine (Bellin, S.I.)
403, 105

Medial septal lesion; Superior cervical ganglion; Peripheral sympathetic nervous system; Body weight; Feeding (Harrell, L.E.) **408**, 131

Dopamine; Angiotensin; Minipig (Thornton, S.N.) **410**, 401

Dehydration; Inhibition; Cerebrospinal fluid sodium concentration (CSF [Na]); CSF osmolality (Osborne, P.G.) **412**, 36

In vivo autoradiography; Reinforcement; Opioid; Opiate receptor; Deprivation (Blake, M.J.) **413**, 111

Blood pressure; Angiotensin II; Catecholamine; Angiotensin-induced thirst; Pressor response (Bellin, S.I.) **416**, 75

Angiotensin II; Angiotensin III; Blood pressure; Spontaneously hypertensive rat (Wright, J.W.) **420**, 289

Water deprivation; Organum vasculosum lamina terminalis (OVLT); Anterior region of the third cerebral ventricle (AV3V); Sodium excretion (Thornton, S.N.) **437**, 339

Drinking behavior

Circumventricular organ; Subcommissural organ; Aldosterone; Catecholamine; Sodium excretion; Eating (Dundore, R.L.) **401**, 122

Intracerebroventricular; NaCl; Angiotensin II; Body fluid balance; Operant behavior (Weisinger, R.S.) **420**, 135

Drosophila

Movement detection; Behavior; Electrophysiology; Pharmacology; Picrotoxinin; γ -Aminobutyric acid (GABA); Fly (Bülthoff, H.) **407**, 152

Drug abuse

Cocaine; Corticotropin-releasing factor (CRF); Adrenocorticotrophic hormone (ACTH) (Rivier, C.) **422**, 403

Dual estradiol implant

Female hamster; Bilateral estradiol implant; Agonistic behavior; Scent-marking behavior; Lordosis; Medial preoptic area; Ventromedial hypothalamus (Takahashi, L.K.) **425**, 337

Dual-immunocytochemistry

Acetylcholine; Enkephalin; Globus pallidus (Chang, H.T.) **426**, 197

Dwarf mouse

Dopaminergic neuron; Tyrosine hydroxylase; Immunocytochemistry; Prolactin (Phelps, C.J.) **416**, 354

Dye-coupling

Hippocampus; Ca^{2+} -loading; Fluorescein isothiocyanate (FITC) dextran (Rao, G.) **408**, 267

Dynamics

Dopamine; Electrical stimulation; In vivo voltammetry; Synthesis; Metabolism; Compartment; Autoreceptor (Michael, A.C.) **421**, 325

Dynorphin

Seizure; Gerbil; Enkephalin (Lee, R.J.) **401**, 353

Amphibian; *Rana pipiens*; Antinociception; β -Endorphin; Met-enkephalin (Stevens, C.W.) **402**, 201

Single electroconvulsive shock (ECS); Chronic electroconvulsive shock; β -Endorphin; Analgesia; Catalepsy (Lasoñ, W.) **403**, 301

Kindling; Seizure; Substantia nigra (Bonhaus, D.W.) **405**, 358

β -Endorphin; Opioid; Opioid receptor; Pain; Arthritis; Periaqueductal grey (Millan, M.J.) **416**, 349

Feeding; Lateral hypothalamus; Opioid (Carr, K.D.) **422**, 384

Autoradiography; Brattleboro rat; Dehydration; κ -Opiate receptor; Receptor localization; Vasopressin (Brady, L.S.) **425**, 212

Leucine-enkephalin; β -Endorphin; Brain injury; Trauma; Radioimmunoassay (McIntosh, T.K.) **425**, 225

Spinal cord; Tail-flick; Neurotoxicity; Reflex; Morphine (Caudle, R.M.) **435**, 1

Rat corticosterone; β -Endorphin; Tolerance; Independent opioid receptor (Iyengar, S.) **435**, 220

Hippocampus; Perforant path; Opioid peptide; Amino acid; Wet dog shake; Enkephalin; γ -Aminobutyric acid (GABA) (Mitchell, C.L.) **435**, 343

Dynorphin A

Spinal cord; Blood flow; Opioid; Naloxone; Paralysis (Long, J.B.) **436**, 374

Dynorphin A₁₋₁₃

κ -Agonist; Intrathecal administration; Spinal cord; Rat dorsal horn; κ -Opioid receptor; Antinociception; Analgesia; U50488H; Ethylketocyclazocine (Knox, R.J.) **415**, 21

E

E-64

Spinal cord injury; Neurofilament; Protease inhibitor; Leupeptin; Morphometry; Fink-Heimer method

(Iwasaki, Y.) **406**, 99

Early hyperthyroidism

Hippocampal mossy fiber; Developmental plasticity; Kainic acid receptor; Fascia dentata (Represa, A.) **423**, 325

Eastern chipmunk (*Tamias sibiricus asiaticus*)

Geniculate relay cell; Spectral response; Receptive field; Conduction latency (Wakakuwa, K.) **404**, 211

Eating

Circumventricular organ; Subcommissural organ; Aldosterone; Catecholamine; Sodium excretion; Drinking behavior (Dundore, R.L.) **401**, 122

ECC-syndrome

Iminodipropionitrile; ^{125}I -LSD binding site; 5-HT-2 receptor; Frontal cortex; Striatum; Nucleus accumbens; Autoradiography (Cadet, J.L.) **437**, 383

Ectopic pituitary

Tyrosine-hydroxylase; Dopamine; Norepinephrine; Prolactin; Hyperprolactinemia; Pituitary tumor (Fernandez-Ruiz, J.J.) **421**, 65

Edema

Ischemia; Hyperosmotic agent; Diuresis; U-50488H (Silvia, R.C.) **403**, 52

Edge cell

Fictive locomotion; Spinal cord; Lamprey; Sensory feedback (Alford, S.) **409**, 139

Edinger-Westphal nucleus

Choline acetyltransferase; Anteromedian nucleus; Oculomotor nucleus; Ciliary ganglion; Immunocytochemistry; Retrograde transport; Double labelling (Strassman, A.) **423**, 293

EEG (spatial pattern)

Cortex (visual); Monkey (rhesus); Perception (visual); Spatial analysis (EEG); Visual cortex (EEG) (Freeman, W.J.) **422**, 267

EEG-spike

Cholinergic input; Posterior cingulate cortex; Basal forebrain neuron; Septal nucleus; Theta rhythm; Pharmacology (Borst, J.G.G.) **407**, 81

Effect of ferric ion

2,4-Dihydroxyphenylacetic acid; Spider toxin; Glutamate binding activity; Mechanism of biological action (Pan-Hou, H.) **418**, 198

Efferent impulse

Nervus terminalis; Elasmobranch; Ganglion activity; Suppression (White, J.) **400**, 159

Efferent nerve

Calcitonin gene-related peptide; Lateral line organ; Hair cell;

Neurotransmitter (Adams, J.C.)
419, 347

Efferent system

γ -Aminobutyric acid (GABA);
 Immunoreactivity; Vestibular
 endorgan; Squirrel monkey
 (Usami, S.-I.) **417, 367**

EGTA

Synaptic plasticity; Conditioning;
 Intracellular recording; Motor cortex;
 Colchicine (Baranyi, A.) **423, 378**

Action potential repolarization;
 Afterhyperpolarization; Ca-activated
 K-current; Hippocampal pyramidal
 cell; Calcium chelator;
 1,2-Bis(*o*-aminophenoxy)-
 ethane-N,N,N',N'-tetraacetic acid
 (BAPTA) (Storm, J.F.) **435, 387**

El mouse

Epileptic convulsion; Metal ion level;
 Biogenic amine metabolism;
 Ethanol-induced sleep; Calcification
 (Sutoo, D.) **418, 205**

Elasmobranch

Nervus terminalis; Efferent impulse;
 Ganglion activity; Suppression
 (White, J.) **400, 159**

Vagus; Glossopharyngeal; Accessory
 nerve; Horseradish peroxidase; Nucleus
 ambiguous (Barry, M.A.) **425, 159**

Dopamine; Spinal cord;
 Liquor-contacting neuron
 (Roberts, B.L.) **437, 171**

Electric field

Electrotherapy; Motor nerve;
 Regeneration; Nerve growth; Nerve
 lesion; Sciatic nerve; Rat
 (McDevitt, L.) **416, 308**

Electrical brain stimulation

Rat; Hypothalamus; Grooming;
 Digging; Circling; Discriminant
 analysis; Mapping
 (Lammers, J.H.C.M.) **418, 1**

Electrical potential

Crustacean; Sinus gland;
 Neurosecretion; Moulting cycle
 (Chiang, R.G.) **402, 49**

Electrical resistance

Brain endothelial cell; Monolayer
 culture; Aortic endothelial culture;
 Epididymal endothelial culture;
 Permeability (Rutten, M.J.) **425, 301**

Electrical stimulation

Locus coeruleus; Spinal motoneuron;
 Excitatory postsynaptic potential
 (EPSP); Input resistance; Membrane
 excitability; Cat (Fung, S.J.) **402, 230**

Circling; Head turn; Body curvature;
 Refractory period; Summation;
 Anteromedial cortex; Medial pons
 (Tehovnik, E.J.) **407, 240**

Pain suppression system; Local cerebral
 glucose utilization; Parafascicular
 nucleus; VPL nucleus; Dopaminergic
 nigrostriatal system (Aiko, Y.) **408, 47**

Hippocampus; Spatial memory;
 Naloxone (Collier, T.J.) **409, 316**

Cytochrome; Redox state; Potassium
 chloride excess; Tetrodotoxin;
 Neurohypophysis (Harada, E.)
414, 173

5,7-Dihydroxytryptamine; Dorsomedial
 nucleus of the hypothalamus;
 5-Hydroxytryptamine synthesis;
 Intermediate lobe; Neural lobe;
 Pituitary gland; Raphe nuclei
 (Shannon, N.J.) **416, 322**

Neurotensin; Hypothalamus;
 Hypophysis (Eckland, D.J.A.) **421, 161**

Dopamine; In vivo voltammetry;
 Synthesis; Metabolism; Compartment;
 Dynamics; Autoreceptor
 (Michael, A.C.) **421, 325**

Midbrain central gray; Lateral
 vestibular nucleus; Electromyography;
 Lateral longissimus; Medial
 longissimus; Axial muscle
 (Cottingham, S.L.) **421, 397**

Norepinephrine release; Brain slice;
 Desipramine; Tyrosine; Hypothalamus;
 Rat (Irie, K.) **423, 391**

Analgesia; Aversion; Periaqueductal
 gray; Diazepam; Tail-flick
 (Morgan, M.M.) **423, 395**

Urinary bladder; Parabrachial nucleus;
 DL-Homocysteic acid (Lumb, B.M.)
435, 363

Electro-convulsive treatment

Hippocampal slice; Long-term
 potentiation (Anwyl, R.) **435, 377**

Electroacupuncture

Tail flick; Pentobarbital; Intrathecal;
 Morphine; Naltrexone; Transcutaneous
 electrical nerve stimulation (TENS)
 (Peets, J.M.) **416, 301**

Electrochemical detection

Monoamine; High-performance liquid
 chromatography (HPLC); Medial basal
 hypothalamus; Luteinizing hormone
 (LH) surge; Estradiol;
 4-Hydroxy-3-methoxyphenyl-
 ethyleneglycol (MHPG)
 (Osterburg, H.H.) **409, 31**

Serotonin; Catecholamine; Uric acid;
 High-pressure liquid chromatography;
 Rat spinal cord (Basbaum, A.I.)
419, 229

Serotonin; Analgesia; Nociception;
 Raphe nucleus; *p*-Chlorophenylalanine;
 Dorsal spinal cord; Motoneuron
 (Steinman, J.L.) **426, 297**

Electrochemistry

5-Hydroxyindole; Spinal cord;
 Voltammetry; Uric acid (Rivot, J.P.)
419, 201

Electroconvulsive shock

Hippocampus; Deoxyglucose; Seizure;
 Glucose utilization (Orzi, F.) **423, 144**

Electrocorticogram

Atropine; Hippocampal theta wave;
 Phencyclidine; Psychotomimetic opioid;
 Serotonin; Sigma receptor
 (Vanderwolf, C.H.) **414, 109**

Electrocutaneous stimulation

Itch; Pruritus; Cutaneous receptor;
 Cowhage; Nociceptor; Signal averaging
 (Tuckett, R.P.) **413, 95**

Electroencephalogram

Transplantation; Hippocampus; Unit
 activity; Behavior; θ -Activity
 (Buzsáki, G.) **400, 321**

Regeneration; Embryonic transplant;
 θ -Activity; Unit activity; Hippocampus;
 Septum; Locus coeruleus; Behavior
 (Buzsáki, G.) **400, 334**

Muramyl peptide; Slow-wave sleep;
 Rapid eye movement (REM) sleep;
 Brain temperature; Fever
 (Krueger, J.M.) **403, 258**

Theta; Hippocampal brain slice;
 Carbachol; Muscarinic (Konopacki, J.)
405, 196

Ibotenic acid; Hippocampus; Septum;
 Active sleep; Quiet sleep; Rhythmical
 slow activity; Cholinergic neuron
 (Stewart, D.J.) **423, 101**

Cortically projecting basal forebrain
 cell; Pallidal cell; Neuronal firing;
 Cortical activation; Acetylcholinergic
 system; Anesthetized rat (Détári, L.)
437, 1

Electroencephalographic sleep

Rapid-eye-movement (REM) sleep;
 Non-rapid-eye-movement sleep;
 Serotonin; Fluoxetine;
 Trifluoromethylphenylpiperazine
 (TFMPP); Rat (Pastel, R.H.) **436, 92**

Electroencephalographic spike

Posterior cingulate cortex; Multi-unit
 activity; Theta rhythm; Transcallosal
 evoked potential; Fast oscillation;
 Slow-wave sleep; Rapid-eye-movement
 sleep (Leung, L.-W.S.) **407, 68**

Electroencephalography

Mast cell-degranulating peptide
 (MCD); Behavior; Binding; Central
 nervous system; Hippocampus; Seizure;
 Theta rhythm (Bidard, J.-N.) **418, 235**

Electroencephalography (EEG)

Hippocampal; State; Theta-on;
 Theta-off; Cell (Colom, L.V.) **422, 277**

Electrogenic pump

Extracellular K⁺; Glial cell;
 Na⁺, K⁺-ATPase; Epilepsy; Cerebral
 cortex (Onozuka, M.) **420, 259**

Electrolytic lesion

A₁ cell group; Adrenocorticotropin;
 Catecholaminergic pathway;
 Hemorrhage; Ventrolateral medulla;
 Vasopressin (Carlson, D.E.) **406, 385**

Yawning; Penile erection;
 Paraventricular nucleus; Dopamine
 agonist; Oxytocin; Adrenocorticotropin

(Argiolas, A.) **421**, 349

Electromyogram

Zona incerta-lateral hypothalamus; Morphine; Catalepsy; Muscular rigidity; Picrotoxin; Bicuculline methiodide (Wardas, J.) **408**, 363

α -Kainic acid; γ -D-Glutamylaminomethylsulphonic acid; Substantia nigra; Caudate-putamen; Muscle tone; Catalepsy; Turning; 6-Hydroxydopamine; Ibotenic acid (Turski, L.) **424**, 37

Electromyogram (EMG)

Stretch reflex; Co-ordination; Cerebrovascular disease (Di Fabio, R.P.) **406**, 43

Spinal cat; Locomotion; Training; Kinematics (Barbeau, H.) **412**, 84

Electromyography

Midbrain central gray; Lateral vestibular nucleus; Electrical stimulation; Lateral longissimus; Medial longissimus; Axial muscle (Cottingham, S.L.) **421**, 397

Spinal reflex; Motor unit; Motoneuron; H-reflex; Motor control (Sabbahi, M.A.) **423**, 125

Electron microscope

Acetylcholine; Acetylcholinesterase; Butyrylcholinesterase; Histochemistry; Human retina (Hutchins, J.B.) **400**, 300

Electron microscope radioautography

Ischemia; Hippocampus; [3 H]2-Deoxyglucose; Light microscope radioautography; Rapid freezing technique (Izumiyama, K.) **416**, 175

Electron microscopy

Human hippocampus; Glutamate decarboxylase; Immunocytochemistry; Basket cell (Schlander, M.) **401**, 185

Receptor; Opioid; Enkephalin; Radioautography; Neostriatum (Hamel, E.) **401**, 239

Astrocyte; Synaptic density; Cerebellar explant; Cytosine arabinoside (Meshul, C.K.) **402**, 139

Striatum; Olfactory tubercle; Pallidum; Mediodorsal nucleus; Horseradish peroxidase; Degeneration (Zahm, D.S.) **404**, 327

Enkephalin; α -Motoneuron; Synapse; Spinal cord; Neuropeptide (Atsumi, S.) **409**, 187

Glutamic acid decarboxylase; Light microscopy; Glutamine synthetase; γ -Aminobutyric acid (GABA); Area postrema; Immunocytochemistry; Cat (D'Amelio, F.E.) **410**, 232

Glial cell; Neurite outgrowth; Insect; Central nervous system explant (Vanhems, E.) **411**, 129

Tyrosine hydroxylase; Choline acetyltransferase; Rat neostriatum; Immunohistochemistry (Kubota, Y.) **413**, 179

Fascia dentata; Transplantation; Axonal degeneration; Synaptic connection; Tissue marker (Sørensen, T.) **413**, 392

Histaminergic innervation; Histidine decarboxylase-like immunoreactivity; Mesencephalic nucleus of the trigeminal nerve; Light microscopy; Immunocytochemistry; Rat (Inagaki, N.) **418**, 388

Synaptic reorganization; Lesion; Medial amygdaloid nucleus; Accessory olfactory bulb; Rat (Ichikawa, M.) **420**, 243

Synaptic reorganization; Lesion; Medial amygdaloid nucleus; Bed nucleus of stria terminalis; Accessory olfactory bulb; Degenerating synapse; Rat (Ichikawa, M.) **420**, 253

Cerebellum; Glutamate; Immunocytochemistry (Clements, J.R.) **421**, 343

Accumbens nucleus; Dopamine; γ -Aminobutyric acid; Immunocytochemistry; Lateral septum; Rat (Onténiente, B.) **421**, 391

Acrylamide neuropathy; Rat sciatic nerve; Node of Ranvier; Voltage clamp (Brismar, T.) **423**, 135

Muscle spindle; Rat; Spindle afferent (Walro, J.M.) **425**, 311

Tyrosine hydroxylase; Midbrain; Radioautography; Immunocytochemistry (Hervé, D.) **435**, 71

Horseradish peroxidase; Wheat germ agglutinin; Anterograde degeneration; Substantia nigra; Superior colliculus; Spinal cord; Cat (Tokuno, H.) **436**, 76

Photoreceptor; Müller cell; Opsin; Monoclonal antibody; Immunocytochemistry; Cell interaction (Akagawa, K.) **437**, 298

Collateral sprouting; Red nucleus; Corticorubral synapse; Classical conditioning (Murakami, F.) **437**, 379

Electron spin resonance

Spin trapping; Free radical; Brain ischemia; Lipid peroxidation (Tominaga, T.) **402**, 370

Electrophoresis

Lateral hypothalamus; Single neuron activity; Monkey; Dopamine; Noradrenaline; Operant feeding; Cue response; Reward (Nishino, H.) **405**, 56

Microtubule-associated protein; Tau; Denervation; Hippocampus; Immunocytochemistry (Busciglio, J.) **419**, 244

Electrophysiological recording

Muscarinic cholinergic receptor; Cultured caudate putamen nucleus; [3 H]Scopolamine; Binding assay; Excitatory postsynaptic current (Usami, K.) **420**, 167

Electrophysiology

Taste; Taste nerve; Cortex; Taste quality; Conditioned taste aversion (Yamamoto, T.) **400**, 312

Urinary bladder; Intramural ganglion; Tissue culture; Autonomic nerve (Pittam, B.S.) **403**, 267

Ventral pallidum; Mediodorsal nucleus of the thalamus; Substantia innominata; Motor control; Horseradish peroxidase (Mogenson, G.J.) **404**, 221

Dopamine; Apomorphine; Cholecystokinin; Freely moving rat; Midbrain (Freeman, A.S.) **405**, 46

Catfish; Facial nerve; Taste; Amino acid; Feeding (Kanwal, J.S.) **406**, 105

Movement detection; Behavior; Pharmacology; Picrotoxin; γ -Aminobutyric acid (GABA); Fly; *Drosophila* (Bülthoff, H.) **407**, 152

Central nervous system (CNS); Cortex; Olfaction; Field potential; Interdependence; Correlation (Bressler, S.L.) **409**, 285

Central nervous system (CNS); Cortex; Olfaction; Field potential; Modelling; Transmission (Bressler, S.L.) **409**, 294

Angiotensin II; Angiotensin III; Brain; Iontophoresis; Spontaneously hypertensive rat (Harding, J.W.) **410**, 130

Proglumide; Cholecystokinin; Dopamine; Iontophoresis; Neuromodulation (Chiodo, L.A.) **410**, 205

Angiotensin; Bradykinin; Glioma cell; Desensitization (Höpp, H.-P.) **412**, 175

Olfactory bulb; Substance P; γ -Aminobutyric acid (GABA); Glomerular cell layer; Slice (Olpe, H.R.) **412**, 269

Taste; Sensory coding; Toxicity; LD₅₀; Nucleus tractus solitarius; Multidimensional scaling (Scott, T.R.) **414**, 197

Ethyl alcohol; Intracellular recording; Hippocampus; Transmembrane property; Synaptic potential (Siggins, G.R.) **414**, 22

Adenosine; Hippocampus; Phenylisopropyladenosine; Theophylline (Brodie, M.S.) **415**, 323

Anoxia; Potassium ion; Hippocampal slice (Sick, T.J.) **418**, 227

Quinolate; Quinolinic acid; *N*-Methyl-D-aspartate (NMDA) receptor; Excitatory amino acid;

Cortex; Cell culture (Peters, S.) **420**, 1
Olfaction; Lobster; Neurotransmitter;
Purnergic; Adenosine; Adenosine
monophosphate (Derby, C.D.) **421**, 57
Norepinephrine; Cultured astrocyte;
 α_1 -Receptor; Depolarization;
Desensitization (Bowman, C.L.)
423, 403

Aging; Cerebellum; In oculo brain
graft; Norepinephrine; In vivo
electrochemistry (Granholm, A.-C.)
423, 71

Cholecystokinin; Ventral tegmental
area; Dopamine; Co-transmitter; In
vitro slice (Brodie, M.S.) **425**, 106

Electrosensory lateral line lobe
Cerebellum; Amino acid; Glutamate;
Aspartate; γ -Aminobutyric acid;
Taurine; Glycine (Nadi, S.) **425**, 218

Electrosensory system
Regional neurochemistry;
Neurotransmitter (Bissoli, R.) **405**, 380

Electroshock
1-Methyl-4-phenyl-1,2,3,6-
tetrahydropyridine (MPTP);
Chemoconvulsion; Mouse
(Fariello, R.G.) **426**, 373

Electrotherapy
Electric field; Motor nerve;
Regeneration; Nerve growth; Nerve
lesion; Sciatic nerve; Rat
(McDevitt, L.) **416**, 308

Electrotonic
Nociceptor; C-fiber; Pain; Ephapse;
Gap junction; Reflex sympathetic
dystrophy; Sympathetic nervous system
(Meyer, R.A.) **437**, 181

Electrotonic length
Spinal cord; Motoneuron; Membrane
resistance; Cable model; Time
constant; Dendrite (Glenn, L.L.)
435, 398

Electrotonic synapse
Gap junction; PH; Diurnal rhythm
(Moreno, A.P.) **400**, 181

Embolism
Cerebral ischemia; Microsphere; Stroke
model; Pharmacology; Cyproheptadine
(Zivin, J.A.) **435**, 305

Embryo
Phencyclidine; Fetal brain
(Ahmad, G.) **415**, 194

Embryonic graft
Neostriatum; Transplantation;
Dendritic morphology; Spiny neuron;
Morphometry; Rat (Zemanick, M.C.)
414, 149

Neostriatum; Transplantation;
Connectivity; Horseradish peroxidase;
Rat (Walker, P.D.) **425**, 34

Embryonic transplant
Regeneration; θ -Activity;
Electroencephalogram; Unit activity;
Hippocampus; Septum; Locus

coeruleus; Behavior (Buzsáki, G.)
400, 334

Emotion
Epilepsy; Seizure; Interictal behavior;
Defence reaction; Kainic acid;
Aggression; Temporal lobe
(Griffith, N.) **400**, 360

Amygdala; Cardiovascular; Classical
conditioning (Iwata, J.) **418**, 183

Endocrine response
Separation; Benzodiazepine; Behavior;
Rhesus monkey (Kalin, N.H.) **408**, 192

Endogenous benzodiazepine
Monoclonal antibody; Benzodiazepine
receptor; Human cerebellum;
Benzodiazepine (De Blas, A.L.)
413, 275

Benzodiazepine receptor;
Benzodiazepine;
Immunocytochemistry; Monoclonal
antibody (De Blas, A.L.) **413**, 285

Endogenous opioid
Chronic stress; Corticosterone; Growth
hormone; Thyroid stimulating
hormone; Morphine (Armario, A.)
401, 200

Pituitary; Adrenal; Anticonvulsant;
Maximal electroshock seizure
(Long, J.B.) **402**, 155

Opioid receptor; Cerebellum;
Naltrexone; Methionine-enkephalin;
Growth; Autoradiography; Cell
proliferation (Zagon, I.S.) **412**, 68

Endogenous peptide
 Na^+ channel; Tetrodotoxin
(Lombet, A.) **417**, 327

**Endogenous γ -aminobutyric acid
(GABA) release**
Vocalization nucleus; Brain slice; Zebra
finch (Sakaguchi, H.) **410**, 380

Endoneurial capillary
Blood-nerve barrier; Ionic
permeability; Sciatic nerve; Excitability
(Weerasuriya, A.) **419**, 188

Endoneurial microvessel
Fixation; Vasomotor tone;
Ultrastructure; Histologic
measurement; Endothelial cell;
Basement membrane (Schenone, A.E.)
402, 151

Endoneurium
Peripheral nerve; Blood-nerve barrier;
Calcium; Regulation; Homeostasis;
Blood vessel; Neuropathy;
Hypercalcemia; Hypocalcemia;
Magnesium; Ion (Rechthand, E.)
406, 185

β -Endorphin
Neurotensin; Neuropeptide; Ethanol;
Anesthesia; Hypothermia; Selectively
bred mouse (Erwin, V.G.) **400**, 80

Amphibian; *Rana pipiens*;
Antinociception; Dynorphin;

Met-enkephalin (Stevens, C.W.)
402, 201

Single electroconvulsive shock (ECS);
Chronic electroconvulsive shock;
Dynorphin; Analgesia; Catalepsy
(Lasoñ, W.) **403**, 301

Periaqueductal grey; Stimulation;
Analgesia; Opioid; Prolactin; Stress
(Millan, M.J.) **407**, 199

Hyperalgesia; Morphiceptin;
Tyr-MIF-1; Neonate (Zadina, J.E.)
409, 10

Acid secretion; Gastrin; Autonomic
nervous system; Vagotomy
(Lenz, H.J.) **413**, 1

Dynorphin; Opioid; Opioid receptor;
Pain; Arthritis; Periaqueductal grey
(Millan, M.J.) **416**, 349

α -MSH; Somatostatin (SRIF); Median
eminence (ME); In vitro incubation
(Aguila, M.C.) **417**, 127

Opioid analgesia; Hypophysectomy;
Dexamethasone; Pregnancy
(Baron, S.A.) **418**, 138

Nitrous oxide; α -Melanocyte
stimulating hormone;
Adrenocorticotrophic hormone; Medial
basal hypothalamus; Periaqueductal
gray (Zuniga, J.R.) **420**, 57

Nitrous oxide; α -Melanocyte
stimulating hormone; Medial basal
hypothalamus; Cytodex beads; In vitro
superfusion (Zuniga, J.R.) **420**, 66

Corticotropin releasing factor;
Analgesia (Hargreaves, K.M.) **422**, 154

Melanocyte-stimulating hormone;
Proopiomelanocortin-containing
neuron; Dopaminergic agonist;
Dopaminergic antagonist;
Hypothalamus; High-performance
liquid chromatography; Perfusion
(Delbende, C.) **423**, 203

Medial preoptic area; Mediobasal
hypothalamus; Testosterone;
Neuropeptide Y; Neurotensin; Sexual
differentiation; Opioid receptor; Rat
(Diez-Guerra, F.J.) **424**, 225

Dynorphin; Leucine-enkephalin; Brain
injury; Trauma; Radioimmunoassay
(McIntosh, T.K.) **425**, 225

Rat corticosterone; Dynorphin;
Tolerance; Independent opioid receptor
(Iyengar, S.) **435**, 220

Baroreceptor area; Adrenocorticotrophic
hormone (ACTH);
 α -Melanocyte-stimulating hormone
(α -MSH); Brainstem lesion;
Hypothalamus; Nucleus of the solitary
tract (Palkovits, M.) **436**, 323

β -Endorphin₂₋₉
Arginine-8-vasopressin; Oxytocin;
Brain area (Laczi, F.) **403**, 155

Endothelial cell

Endoneurial microvessel; Fixation; Vasomotor tone; Ultrastructure; Histologic measurement; Basement membrane (Schenone, A.E.) **402**, 151

Capillary; Choline acetyltransferase; Rat brain (González, J.L.) **412**, 148

Wallerian degeneration; Mitosis; Ornithine decarboxylase; RNA; Protein synthesis (Oaklander, A.L.) **419**, 39

Endothelial microvilli

Global brain ischemia; Postischemic hypoperfusion; Microvasculature; Transmission electron microscopy (Kumar, K.) **421**, 309

Endothelial surface charge

Protamine sulfate; Blood-brain barrier; Blood-brain barrier disruption; Polycation; Heparin (Strausbaugh, L.J.) **409**, 221

Endothelium

Cerebral circulation; Pial vessel; Acetylcholine; Choline acetyltransferase (ChAT); Cholinergic innervation (Hamel, E.) **420**, 391

Endplate potential

RAY K 8644; Neuromuscular junction; Miniature endplate potential; Calcium channel agonist; Dihydropyridine (Atchison, W.D.) **419**, 315

Energy metabolism

Glycogen; Norepinephrine; Adrenergic receptor; Locus coeruleus; Epilepsy (Magistretti, P.J.) **403**, 181

Hippocampal slice; Postsynaptic potential; Hypothermia; Anoxia (Tanimoto, M.) **417**, 239

Calcium overload; Neuroblastoma cell line; Amino acid incorporation; Calcium uptake; Protein synthesis (Abe, K.) **423**, 221

Circadian rhythmicity; Suprachiasmatic nucleus; Deoxyglucose; Albino rat; Squirrel monkey (Schwartz, W.J.) **424**, 249

Enhancement

Axonal regeneration; Spinal root; Sensory neuron; Transganglionic (Richardson, P.M.) **411**, 406

Enhancement of static component

Frog muscle spindle; Fusiform innervation; Decay in dynamic component; Glycogen depletion; Small diameter intrafusal muscle fiber (Fujitsuka, N.) **415**, 144

Enkephalin

Receptor; Opioid; Radioautography; Neostriatum; Electron microscopy (Hamel, E.) **401**, 239

Lamina X; Serotonin; Substance P; True blue; Hemisection; Dorsal rhizotomy (Nahin, R.L.) **401**, 292

Seizure; Gerbil; Dynorphin (Lee, R.J.) **401**, 353

Cholecystokinin; Neuropeptide; Opioid; Nociception; Periaqueductal gray matter; Neurotransmitter coexistence (Gall, C.) **403**, 403

Area postrema; γ -Aminobutyric acid (GABA); Guanethidine; Immunohistochemistry; Neurotensin; Neurotoxin; Rat; Serotonin (Newton, B.W.) **404**, 151

Chronic; Nicotine; Catecholamine; Guinea pig; Adrenal gland (Hexum, T.D.) **406**, 370

Dorsal horn; Analgesia; Peptidase inhibitor; Kelatorphan (Dickenson, A.H.) **408**, 185

Valproic acid; γ -Aminobutyric acid (GABA); Pro-enkephalin-related peptide; Analgesia (Vion-Dury, J.) **408**, 243

Retina; γ -Aminobutyric acid; Coexistence; Intracellular recording; On-Off ganglion cell; Larval tiger salamander (Watt, C.B.) **408**, 258

α -Motoneuron; Synapse; Spinal cord; Neuropeptide; Electron microscopy (Atsumi, S.) **409**, 187

Dopamine; Substance P; Dorsal striatum; Ventral striatum; Immunoreactivity pattern (Voorn, P.) **412**, 391

Opioid receptor; Spinal cord; μ -Opioid; δ -Opioid; Nociception; Analgesia; Intrathecal opioid; Rat dorsal horn (Dickenson, A.H.) **413**, 36

A10 dopamine neuron; Footshock; Ventral tegmental area; Dopamine turnover (Kalivas, P.W.) **414**, 339

Evolution; Frog; Hypothalamus; Immunocytochemistry; Optic tectum; Peptide; Toad (Merchenthaler, I.) **416**, 219

Ventral tegmental area; Nucleus accumbens; Morphine; μ -Opioid receptor; Locomotor activity; Sensitization; Dopamine (Vezina, P.) **417**, 51

Small intensely fluorescent cell; Superior cervical ganglion; Immunocytochemistry; Guinea pig (Matsuyama, T.) **418**, 325

Spinal trigeminal nucleus; Subnucleus oralis; Subnucleus caudalis; Tooth pulp; Naloxone; Inhibition (Ujihara, H.) **418**, 52

Morphine; Opioid peptide; Adenylate cyclase; Cochlea; Lateral olivocochlear system; Guinea pig (Eybalin, M.) **421**, 336

Dopamine; Chicken retina; Opiate receptor; 6-Hydroxydopamine (Su, Y.Y.T.) **423**, 63

Substance P; Immunohistochemistry; Immunofluorescence; Coexistence; Spinal cord; Cat (Tashiro, T.) **424**, 391

Substance P; Coexistence; Hypothalamus; Rat (Shimada, S.) **425**, 256

Acetylcholine; Globus pallidus; Dual-immunocytochemistry (Chang, H.T.) **426**, 197

Hippocampus; Perforant path; Opioid peptide; Amino acid; Wet dog shake; Dynorphin; γ -Aminobutyric acid (GABA) (Mitchell, C.L.) **435**, 343

Raphe magnus; Reticular formation; Retrograde tracer; Spinal cord; Analgesia (Edwards, D.L.) **437**, 197

[D-Pen², D-Pen⁵]Enkephalin (DPDPE)

Place conditioning; δ -Receptor; Opioid; Reinforcement; ICI 174,864; Morphine (Shippenberg, T.S.) **436**, 234

[D-Ala², D-Leu⁵]Enkephalin binding

Sex difference; Opiate receptor; Golden hamster; *Mesocricetus auratus*; Naloxone; Hypothalamus; Brain differentiation; Sexual dimorphism; Sexually dimorphic nucleus (Ostrowski, N.L.) **421**, 1

Enkephalin receptor

Calcium channel; NG 108-15; Naloxone; Intracellular Ca²⁺; Ba current (Shimahara, T.) **415**, 357

L-Enkephalin

Dorsal tegmental nucleus; Ventral tegmental nucleus; Fiber connection; Mammillary body; Interpeduncular nucleus; Immunocytochemistry; Rat (Yamano, M.) **408**, 22

Met-Enkephalin

BALB/c mouse strain; CBA mouse strain; Substantia nigra zona compacta; Ventral tegmental area; Caudate; Micropunch; Radioimmunoassay (Sanghera, M.K.) **412**, 200

Met-Enk-Arg-Gly-Leu

Parasympathetic preganglionic neuron; Immunohistochemistry; Rat (Shimosegawa, T.) **406**, 341

 δ -Enkephalin analogue

Opioid receptor; Selective ligand; Discriminative binding property; Parkinson's disease; Human brain (Delay-Goyet, P.) **414**, 8

Enriched environment

Aging; Circadian rhythm; Male rat; Morphometry; Suprachiasmatic nucleus; Vasopressin (Roozendaal, B.) **409**, 259

Entopeduncular nucleus

Striatum; Habenula; Horseradish peroxidase; Fluorescent retrograde double labeling; Rat (Takada, M.) **418**, 129

Entorhinal cortex

Ganglioside; Sprouting; Behavioral

recovery; Hippocampus; Learned alternation (Ramirez, J.J.) **414**, 85

Neurofilament; Human; Neocortex; Subiculum; Dementia; Neurofibrillary tangle (Morrison, J.H.) **416**, 331

Kindling; Afterdischarge; Hippocampus; Cholinergic input; Paroxysmal fast wave; Medial septum; Scopolamine (Leung, L.-W.S.) **419**, 173

Entrainment

Circadian rhythm; Biological clock; Acetylcholine; Suprachiasmatic nucleus (Keefe, D.L.) **403**, 308

Rat; Pineal; *N*-Acetyltransferase; Circadian rhythm (Illnerová, H.) **417**, 167

Environmental stress

Central amygdaloid nucleus; Renal function; Conscious rats; Hypertension; α - and β -Adrenoceptors (Koepke, J.P.) **404**, 80

Enzyme immunoassay

S-100 protein; Brain-specific protein; Kidney; Purification; Isoprotein (Semba, R.) **401**, 9

Enzyme replacement therapy

Neurite; Plasticity; Lysosome; Swainsonine; Storage disease (Walkley, S.U.) **410**, 89

Enzyme-linked immunosorbent assay

DL-5-Hydroxytryptophan; Glutaraldehyde; Antibody; Raphe nucleus; Immunocytochemistry (Geffard, M.) **426**, 191

Ephapse

Nociceptor; C-fiber; Pain; Gap junction; Electrotonic; Reflex sympathetic dystrophy; Sympathetic nervous system (Meyer, R.A.) **437**, 181

Epididymal endothelial culture

Brain endothelial cell; Monolayer culture; Electrical resistance; Aortic endothelial culture; Permeability (Rutten, M.J.) **425**, 301

Epiglottis

Autoradiography; Nodose ganglion; Axonal transport; Vagal afferent fiber; Rabbit (Sato, M.) **410**, 101

Epilepsy

Seizure; Emotion; Interictal behavior; Defence reaction; Kaïnate acid; Aggression; Temporal lobe (Griffith, N.) **400**, 360

Carbamazepine; Anticonvulsant; Afterdischarge; Hippocampus (Smith, K.L.) **400**, 371

Hippocampus; Hippocampal slice; Penicillin; Slow potential (Schneiderman, J.H.) **403**, 162

Glycogen; Norepinephrine; Adrenergic receptor; Energy metabolism; Locus coeruleus (Magistretti, P.J.) **403**, 181

Protein phosphorylation; Hippocampal slice; 4-Aminopyridine; Ca^{2+} /calmodulin (De Graan, P.N.E.) **404**, 345

Primary cultured neuron; Ganglioside GD₃; Immunocytochemistry; Mutant El mouse (Sugaya, E.) **406**, 270

Corticotropin-releasing factor (CRF); Naloxone; Verapamil (Marrosu, F.) **408**, 394

Magnesium; Hippocampal slice; Burst; *N*-Methyl-D-aspartate receptor (Schneiderman, J.H.) **410**, 174

Seizure; Interictal; Anticonvulsant; Baclofen; Inhibition; Magnesium (Swartzwelder, H.S.) **410**, 362

Bicuculline methiodide; Caudate-putamen; Kindling (Cavalheiro, E.A.) **411**, 370

Kindling; Hippocampus; Dentate gyrus; Recurrent inhibition; Long-term potentiation (De Jonge, M.) **412**, 318

Aminopyridine; Neocortex; Bursting activity; Giant PSP (Szente, M.) **413**, 368

Seizure-like discharge; Neocortex; *N*-Methyl-D-aspartate (Avoli, M.) **417**, 199

Gerbil; Hippocampus; Lesion; Perforant path; Fornix (Ribak, C.E.) **418**, 146

Kindling; Long-term potentiation; Perforant path; Dentate gyrus (Sutula, T.) **420**, 109

Electrogenic pump; Extracellular K^+ ; Glial cell; Na^+ , K^+ -ATPase; Cerebral cortex (Onozuka, M.) **420**, 259

Red nucleus; Kindling; Cerebellum; Mesencephalic lesion (Paz, C.) **422**, 99

Hippocampus; Theophylline; Caffeine; Kaïnate acid; Metrazol; Adenosine receptor (Ault, B.) **426**, 93

Epileptic chicken

Benzodiazepine antagonist; Ro 15-1788; Diazepam; Benzodiazepine receptor; Anticonvulsant activity (Pedder, S.C.J.) **424**, 139

Epileptic convulsion

El mouse; Metal ion level; Biogenic amine metabolism; Ethanol-induced sleep; Calcification (Suttoo, D.) **418**, 205

Epileptiform activity

Dithiothreitol; Hippocampus; Sulfhydryl reagent; Radioprotectant (Tolliver, J.M.) **404**, 133

Epileptogenesis

Substantia nigra; γ -Vinyl γ -aminobutyric acid (GVG); Thermocoagulative lesion; *N*-Methyl-D,L-aspartate (NMDA); Kindling development (Shin, C.) **412**, 311

Epileptogenic focus

Kindling; Low-frequency stimulation; Hippocampus (Minabe, Y.) **408**, 286

Escape failure

Hippocampus; Cerebral cortex; Noradrenergic innervation; 6-Hydroxydopamine; Antidepressant drug; Learned helplessness; Rat (Soubrie, P.) **437**, 323

Essential hypertension

α_2 -Adrenergic receptor; Quantitative autoradiography; Spontaneously hypertensive rat; Cardiovascular control; Blood pressure regulation (Gehlert, D.R.) **409**, 308

Estimation

Neuromuscular junction; Miniature endplate current; Rising phase; Kinetic parameter; Non-linear regression (Madsen, B.W.) **402**, 387

Estradiol

Melatonin; Binding; Brain; Ovariectomy (Laudon, M.) **402**, 146

Ovariectomy; Choline uptake; Acetylcholine synthesis; Synaptosome (O'Malley, C.A.) **403**, 389

Dopamine-sensitive adenylate cyclase activity; Ovariectomy; Male mouse; Female mouse; Dopamine-stimulation (Tang, L.C.) **405**, 178

Hippocampus; Arcuate nucleus; Hypothalamus; Globus pallidus; Astrocyte; Glial fibrillary acidic protein; Immunohistochemistry (Tranque, P.A.) **406**, 348

Monoamine; High-performance liquid chromatography (HPLC); Electrochemical detection; Medial basal hypothalamus; Luteinizing hormone (LH) surge; 4-Hydroxy-3-methoxyphenylethylene glycol (MHPG) (Osterburg, H.H.) **409**, 31

Imipramine binding; Serotonin uptake; Tricyclic antidepressant; Gonadal hormone; Platelet (Rehavi, M.) **410**, 135

Opioid peptide; Pulsatile; Luteinizing hormone; Progesterone; Naloxone; Morphine (Babu, G.N.) **416**, 235

Arcuate nucleus; Hypothalamus; Plasma membrane; Neuronal membrane; Synapse; Freeze-fracture; Sex-difference (Olmos, G.) **425**, 57

Estrogen

Tuberoinfundibular neuron; Dopamine; Prolactin; Pituitary tumor; Aging (Phelps, C.J.) **411**, 108

Norepinephrine; Adrenergic receptor; Adrenergic agonist and antagonist; Hypothalamic ventromedial nucleus; Brain slice (Kow, L.-M.) **413**, 220

Na^+ , K^+ -ATPase; Estrous cycle; Ovariectomy; Mediobasal hypothalamus;

Preoptic-suprachiasmatic region;
Norepinephrine (Rodriguez del
Castillo, A.) **416**, 113

p-Chlorophenylalanine (PCPA);
Serotonin (5-HT);
5-Hydroxyindoleacetic acid (5-HIAA);
Catecholamine turnover;
Noradrenaline; Dopamine; Luteinizing
hormone (LH) surge (Burri, R.)
416, 267

Cerebellar Purkinje cell; Glutamate;
Evoked excitation; Neuromodulation
(Smith, S.S.) **422**, 40

Progesterone; Cerebellar Purkinje cell;
 γ -Aminobutyric acid; Glutamate;
Neuronal responsiveness;
Neuromodulation; Anxiolytic
(Smith, S.S.) **422**, 52

Spinal cord; Androgen; Receptor;
5 α -Reductase (MacLusky, N.J.)
422, 83

Synaptic plasticity; Synaptogenesis;
Lateral septum; Adult rat
(Miyakawa, M.) **436**, 184

Estrogen receptor

Brain; Nucleus hyperstriatum ventrale,
pars caudale; Immunocytochemistry;
Canary; Zebra finch (Gahr, M.)
402, 173

Norepinephrine; Noradrenergic system;
Prazosin; Hypothalamus; Progesterin
receptor; Catecholamine
(Blaustein, J.D.) **404**, 39

Norepinephrine; Noradrenergic system;
Yohimbine; Phenylephrine; Clonidine;
Catecholamine; Hypothalamus;
 α_2 -Noradrenergic receptor
(Blaustein, J.D.) **404**, 51

5,7-Dihydroxytryptamine;
Hypothalamus; Lordosis; Progesterin
receptor; Serotonin (Luine, V.N.)
426, 47

Catecholamine; Noradrenaline;
Noradrenergic system; Yohimbine;
Hypothalamus; Pituitary gland;
 α_2 -Noradrenergic receptor
(Blaustein, J.D.) **436**, 253

Estrone-sulfate sulfatase

Arylsulfatase C; Pineal gland; Choroid
plexus; Hypophysis; Median eminence;
Histochemistry (Kawano, J.-I.)
409, 391

Estrous cycle

Na⁺, K⁺-ATPase; Ovariectomy;
Estrogen; Mediobasal hypothalamus;
Preoptic-suprachiasmatic region;
Norepinephrine (Rodriguez del
Castillo, A.) **416**, 113

Ethanol

Neurotensin; Neuropeptide;
 β -Endorphin; Anesthesia;
Hypothermia; Selectively bred mouse
(Erwin, V.G.) **400**, 80

Hippocampus; Stratum oriens;
Long-sleep mouse; Short-sleep mouse;

Dendritic spine (Scheetz, A.J.)
409, 329

Calcium channel; ⁴⁵Ca²⁺ uptake; PC12
cell line; Calcium channel antagonist;
BAY K 8644 (Greenberg, D.A.)
410, 143

Salsolinol; Catecholamine;
Acetaldehyde; Rat brain; Gas
chromatography-mass spectrometry
(GC/MS) (Matsubara, K.) **413**, 336

Ca²⁺ transport; Synaptic membrane;
Na⁺-Ca²⁺ antiporter; Chronic alcohol;
Ion transport (Michaelis, M.L.)
414, 239

Purkinje neuron; Granule cell; Culture;
Spontaneous activity; Glutamate
response (Franklin, C.L.) **416**, 205

Ethanol acceptance

Mouse; Protein polymorphism; LTW-4;
Two-dimensional electrophoresis;
Pharmacogenetics; Inbred strain;
Recombinant inbred strain; Alcohol
(Goldman, D.) **420**, 220

Ethanol-induced sleep

El mouse; Epileptic convulsion; Metal
ion level; Biogenic amine metabolism;
Calcification (Sutoo, D.) **418**, 205

Ethanolamine

Phosphoethanolamine; Alzheimer's
disease; Huntington's disease; Cerebral
cortex; Striatum (Ellison, D.W.)
417, 389

Ether

Posterior pituitary; Hypothalamus;
Prolactin; Serotonin (Murai, I.)
420, 227

Ethyl alcohol

Intracellular recording; Hippocampus;
Transmembrane property; Synaptic
potential; Electrophysiology
(Siggins, G.R.) **414**, 22

Ethylcholine aziridinium ion (AF64A)

Acetylcholine; Noradrenaline;
Dopamine; Hippocampus; Alzheimer's
disease (Hörtznagl, H.) **421**, 75

Ethylketocyclazocine

κ -Agonist; Intrathecal administration;
Spinal cord; Rat dorsal horn; κ -Opioid
receptor; Antinociception; Analgesia;
U50488H; Dynorphin A₁₋₁₃
(Knox, R.J.) **415**, 21

Etorphine

Respiratory depression tolerance;
Morphine; Heroin (Roerig, S.C.)
400, 278

Event-related brain potential

Attention; Peripheral-central visual
field; Hemispheric specialization;
Motion perception (Neville, H.J.)
405, 253

Attention; Peripheral-central visual
field; Deafness; Motion perception;
Hemispheric specialization;
Development (Neville, H.J.) **405**, 268

Attention; Peripheral-central visual
field; Deafness; Motion perception;
Hemispheric specialization;
Development; American sign language
(Neville, H.J.) **405**, 284

Evoked excitation

Estrogen; Cerebellar Purkinje cell;
Glutamate; Neuromodulation
(Smith, S.S.) **422**, 40

Evoked potential

Corticostriatal projection;
Autoradiography; Topographic
organization; Cat; Motor cortex
(Updyke, B.V.) **402**, 365

Neuronal transmission; Trisynaptic
circuit; Hippocampus; θ Rhythm
(Herreras, O.) **413**, 75

White ramus; Sympathetic ganglion;
Cervical sympathetic trunk;
Postganglionic cardiac nerve
(Szulczyk, A.) **421**, 127

Amygdala kindling; Systemic penicillin
epilepsy; Ventral lateral thalamus;
Motor cortex; Cat; Sleep-wake cycle
(Shouse, M.N.) **425**, 198

Evoked release

Fluoroacetate; Glutamate; Glutamine;
Brain slice; Ca²⁺-dependence
(Szerb, J.C.) **410**, 116

Evoked response

Spinal cord; Transection; Pudendal
nerve; Supraspinal control; Lordosis;
Cutaneous reflex (Cohen, M.S.)
401, 103

Amphetamine; Long-term treatment;
Long-term potentiation; Hippocampus
(Morimoto, K.) **407**, 137

Evolution

Opioid analgesia; Non-opioid
analgesia; Stress; Naloxone; ICI
154,129; β -Funaltrexamine (B-FNA);
Snail (Kavaliers, M.) **410**, 111

Enkephalin; Frog; Hypothalamus;
Immunocytochemistry; Optic tectum;
Peptide; Toad (Merchenthaler, I.)
416, 219

Co-occurrence; Cortex; Dorsal
ventricular ridge; Basal ganglion;
Somatostatin; Neuropeptide Y; Turtle
(Reiner, A.) **426**, 149

Microtubule-associated protein 2;
Phylogeny; Monoclonal antibody;
Vertebrate brain; Protein
phosphorylation (Fischer, I.) **436**, 39

Excitability

Blood-nerve barrier; Endoneurial
capillary; Ionic permeability; Sciatic
nerve (Weerasuriya, A.) **419**, 188

Excitation

Periaqueductal gray; Nucleus raphe
magnus; Lateral reticular nucleus;
Spontaneous activity; Noxious-evoked
activity; Inhibition (Sotgiu, M.L.)
414, 219

Excitation, circling and choreiform head and neck movements (ECC) syndrome

β,β' -Iminodipropionitrile (IDPN); Neurofilament; Axonal enlargement; Amine metabolism; Neurotoxin (Morandi, A.) **437**, 69

Excitatory amino acid

Binding site; Glutamate; Aspartate; Cysteine sulfinat (Pin, J.-P.) **402**, 11

Baroreflex; Ventrolateral medulla; Nucleus tractus solitarius (Guyenet, P.G.) **407**, 272

Median raphe nucleus; Locomotor activity; Kainic acid; Nucleus centralis superior (Wirtshafter, D.) **408**, 349

Suprachiasmatic nucleus; Retinohypothalamic tract; Hypothalamic slice; Kynurenate; Acetylcholine (Cahill, G.M.) **410**, 125

L-Cysteine-sulphinate; L-Aspartate; N-Methyl-D-aspartate; Quisqualate; Kainate; Iontophoresis; Membrane potential; Caudate; Cat (Turski, W.A.) **414**, 330

Quisqualate receptor; Retina; L-Glutamate receptor; α -Amino-3-hydroxy-5-methylisoxazole-4-propionic acid (AMPA) (López-Colomé, A.M.) **414**, 99

Cyclic guanosine monophosphate (cGMP); N-Methyl-D-aspartate; Kainate; Quisqualate; Neuronal culture (McCaslin, P.P.) **417**, 380

Hippocampal slice; 2-Amino-4-phosphonobutyrate; 2-Amino-6-phosphohexanoate-glutamate; Quisqualate; α -Amino-3-hydroxy-5-methyl-4-isoxazolepropionate (AMPA); Uptake (Harris, E.W.) **418**, 361

Purkinje cell; Voltage clamp (Hamon, B.) **419**, 379

Quinolate; Quinolinic acid; N-Methyl-D-aspartate (NMDA) receptor; Electrophysiology; Cortex; Cell culture (Peters, S.) **420**, 1

N-Methyl-D-aspartate; Spinal cord; Pain; Analgesia (Raigorodsky, G.) **422**, 158

Wind-up; N-Methylaspartate; Spinal cord; Ketamine (Davies, S.N.) **424**, 402

Neurotoxicity; Cytotoxicity; Homocysteic acid; Homocysteate; Cortical neuron; Cell culture; N-Methyl-D-aspartate (NMDA); Glutamate (Kim, J.P.) **437**, 103

Receptor; Magnesium ion; N-Methyl-D-aspartate (NMDA); Quisqualate; Purkinje cell; Cerebellum (Sekiguchi, M.) **437**, 402

Excitatory amino acid receptor

Glutamate; Quisqualate; (RS)- α -amino-3-hydroxy-5-methylisoxazole-4-propionic acid (AMPA) (Olsen, R.W.) **402**, 243

Reticulospinal neuron; Motoneuron; Excitatory postsynaptic potential; Lamprey (Buchanan, J.T.) **408**, 321

Excitatory postsynaptic current

Muscarinic cholinergic receptor; Cultured caudate putamen nucleus; [3 H]Scopolamine; Binding assay; Electrophysiological recording (Usami, K.) **420**, 167

Excitatory postsynaptic potential

Reticulospinal neuron; Motoneuron; Excitatory amino acid receptor; Lamprey (Buchanan, J.T.) **408**, 321

Chronic spinal cord transection; Cutaneous reflex; Inhibitory postsynaptic potential (Baker, L.L.) **420**, 340

Facilitation; Potentiation; Long-term potentiation; Caffeine (Lee, W.-L.) **426**, 250

Excitatory postsynaptic potential (EPSP)

Perforant path; Dentate gyrus; Long-term potentiation; Population spike; Feed-forward inhibition (Kairiss, E.W.) **401**, 87

Locus coeruleus; Spinal motoneuron; Input resistance; Membrane excitability; Electrical stimulation; Cat (Fung, S.J.) **402**, 230

Anesthetic; Halothane; Motoneuron; Inhibitory postsynaptic potential (IPSP); Spinal cord (Takenoshita, M.) **402**, 303

Adenosine antagonist; Adenosine agonist; Hippocampus; Cerebellum; Glutamate; Transmitter release (Prestwich, S.A.) **405**, 130

Excitatory synaptic current

N-Methyl-D-aspartate receptor; Fictive locomotion; Voltage clamp; Impedance; Admittance; Voltage-dependent conductance; Lamprey (Moore, L.E.) **419**, 397

Excitotoxic

Nerve agent; Soman; O-ethyl-S-(2-diisopropylaminoethyl)-methylphosphonothioate (VX); Convulsion; Amygdala; Brain damage; Neuropathology; Microinjection (McDonough Jr., J.H.) **435**, 123

Excitotoxic lesion

N-Methylaspartate; Hippocampus; Amino acid; Purine catabolite (Lehmann, A.) **411**, 95

Excitotoxicity

Retina; Kainic acid; Tectum; Ganglion cell; Degeneration; Synapse (Ehrlich, D.) **415**, 342

Excitotoxin

Choline acetyltransferase; Nucleus basalis; Somatostatin; Noradrenaline; 5-Hydroxytryptamine; Neocortex; Alzheimer's disease (Fine, A.) **406**, 326

β -N-Oxalylamino-L-alanine (BOAA); β -N-methylamino-L-alanine (BMAA); *Lathyrus*; *Cycas* (Nunn, P.B.) **410**, 375

Quinolinic acid; Neuropeptide Y; Basal ganglion; Striatum; Rat; Immunohistochemistry (Boegman, R.J.) **415**, 178

Nucleus basalis; Choline acetyltransferase; Neurotoxicity; Quinolinic acid (Boegman, R.J.) **417**, 315

Choline acetyltransferase; Glutamate decarboxylase; Peripheral type benzodiazepine binding site; Rat striatum (Benavides, J.) **421**, 167

Medial prefrontal cortex; Baroreceptor reflex; Heart rate; Blood pressure; Rat (Verberne, A.J.M.) **426**, 243

Quinolinic acid; Hippocampus; Brain lesion; Gliosis; Neurodegenerative disorder (Speciale, C.) **436**, 18

Exercise

Lactate; Skin afferent; Muscle afferent; Cardiovascular reflex (Gregory, J.E.) **404**, 375

Exocytosis

Tannic acid; Synapse; Microtubule; Microtubule associated protein (Berdan, R.C.) **417**, 153

Pituitary gland; Neurohypophysis; Digital imaging technique; Neurosecretion; Secretory granule; Stimulation-secretion coupling; *Xenopus* (Terakawa, S.) **435**, 380

Experimental allergic neuritis

Complement; Demyelination (Feasby, T.E.) **419**, 97

Experimental epilepsy

Kindling; Amygdala; Noradrenaline; Dopamine; Serotonin (Lewis, J.) **403**, 205

Experimental neuropathy

Hypoxia; *p*-Bromophenylacetylurea; Slow axonal transport; Nerve conduction velocity; Ischemic conduction failure (Nagata, H.) **422**, 319

Expiratory neuron

Nucleus retroambigialis; Intracellular recording; Postsynaptic potential; Horseradish peroxidase; Axon collateral; Antidromic stimulation (Arita, H.) **401**, 258

Respiratory rhythm; Intracellular recording; Phrenic nerve; Recurrent laryngeal nerve; Pulmonary afferent (See, W.R.) **421**, 363

Exploration

Hyperbilirubinemia; Bilirubin encephalopathy; Rat; Behavior; Open-field; Blood-brain barrier; Free bilirubin (Hansen, T.W.R.) **424**, 26

External genitalia

Sensory innervation; Internal genitalia; Female rat (Peters, L.C.) **408**, 199

Extracellular diffusion

Slice; Tetramethylammonium profile; Unstirred bathing; Tortuosity; Volume fraction (Lipinski, H.-G.) **437**, 26

Extracellular K⁺

Neuronotrophic factor; Neuronotoxic factor; Astrocyte (Lefebvre, P.P.) **413**, 120

Electrogenic pump; Glial cell; Na⁺, K⁺-ATPase; Epilepsy; Cerebral cortex (Onozuka, M.) **420**, 259

Extracellular matrix

Pacinian corpuscle; Inner core; Basal lamina; Nerve regeneration; Freezing (Ide, C.) **413**, 155

Extracellular single-unit recording

Zona incerta; Subfornical organ; Medial preoptic area; Angiotensin II; Osmoreceptor; Thirst (Mok, D.) **407**, 332

Extralemniscal

Cortex; Parietal cortex; Somatosensory cortex; Ablation; Temperature; Discrimination; Lemniscal (Porter, L.H.) **412**, 54

Extraocular muscle

Presaccadic spike potential; Computer model; Activation pattern (Thickbroom, G.W.) **422**, 377

Semicircular canal; Gaze direction; Spatial geometry; Rat (Daunicht, W.J.) **435**, 48

Extrapyramidal system

Subthalamic nucleus; Spinal cord; Globus pallidus; Basal ganglia; Retrograde fluorescent labeling; Rat (Takada, M.) **436**, 129

Extrastriate area

Visual cortex; Visual topography; Striate area; Callosal connection; Microelectrode mapping; Horseradish peroxidase; Rat (Thomas, H.C.) **417**, 214

Eye

Substance P; Calcitonin gene-related peptide; Cholecystokinin; Sensory innervation; Trigeminal ganglion; Guinea pig; Cholera toxin B subunit; Retrograde axonal transport; Immunohistochemistry (Kuwayama, Y.) **405**, 220

Eye lesion

Ganglion cell survival; Peripheral nerve implant (Turner, J.E.) **419**, 46

Eye movement

Superior colliculus; Saccade; Burst neuron (Peck, C.K.) **408**, 329

Monocular movement; Frontal eye field; Oculomotor area; Coronal sulcus; Anterior ectosylvian sulcus; Cat (Nakai, M.) **414**, 91

Hemilabyrinthectomy; Functional recovery; Plasticity (Petrosini, L.) **418**, 398

Paramedian pontine reticular formation; Brainstem afferent; Horseradish peroxidase; Cat; Oculomotor system (Leichnetz, G.R.) **422**, 389

Vestibulo-ocular reflex; Optokinetic reflex; Semicircular canal; Otolith; Rabbit; Linear acceleration; Angular acceleration (Barmack, N.H.) **424**, 89

Optokinetic reflex; Adaptive plasticity; Vestibuloocular reflex; Rabbit (Barmack, N.H.) **437**, 111

Eye-head coordination

Gaze stabilization; Quick phase; Vestibular reflex; Saccade (Dieringer, N.) **404**, 33

Eye-head orientation

Cervico-ocular reflex; Cervical afferent; Otolithic receptor; Plasticity of the cervico-ocular reflex; Rabbit (Pettorossi, V.E.) **403**, 58

Eyelid response

Classical conditioning; Neural plasticity; Cerebellum; Brainstem; Lesion; Learning; Rabbit (Mauk, M.D.) **403**, 89

F**Facial nerve**

Catfish; Taste; Electrophysiology; Amino acid; Feeding (Kanwal, J.S.) **406**, 105

Facilitation

Rubrospinal neuron; Cerebellorubral transmission (Gorodnov, V.L.) **410**, 340

Motor tract stimulation; Motoneuron (Rossini, P.M.) **415**, 211

Potentiation; Long-term potentiation; Caffeine; Excitatory postsynaptic potential (Lee, W.-L.) **426**, 250

Hippocampus; Dentate gyrus; Recurrent collateral inhibition; SKF-100330A; SKF-89976A; γ -Aminobutyric acid (GABA); γ -Aminobutyric acid (GABA) uptake blocker; γ -Aminobutyric acid

(GABA)-mediated inhibition (Albertson, T.E.) **435**, 283

False transmitter

Octopamine; Noradrenaline; Locus coeruleus; High-performance liquid chromatography (HPLC); Radioenzymatic assay (Hicks, T.P.) **421**, 315

Fascia dentata

Transplantation; Electron microscopy; Axonal degeneration; Synaptic connection; Tissue marker (Sørensen, T.) **413**, 392

Hippocampal mossy fiber; Early hyperthyroidism; Developmental plasticity; Kainic acid receptor (Represa, A.) **423**, 325

Fasciculus retroflexus

Acetylcholine; Choline acetyltransferase; Interpeduncular nucleus; Medial habenula; Cytochrome oxidase; Plasticity (Eckenrode, T.C.) **418**, 273

Heterotypic collateral sprouting; Homotypic collateral sprouting; Interpeduncular nucleus; Locus coeruleus; Noradrenaline (Battisti, W.P.) **418**, 287

Interpeduncular nucleus; Substance P; Choline acetyltransferase; Serotonin; Cytochrome oxidase; Bodian stain; Plasticity; Development (Barr, G.A.) **418**, 301

Fast axonal transport

Nerve regeneration; Conditioning lesion; Protein; Nerve crush; 2D-Gel; Frog (Perry, G.W.) **423**, 1

Fast blue

Medial basal hypothalamus; Serotonin; Midbrain; Pons; Immunohistochemistry; Fluoro-gold (Willoughby, J.O.) **418**, 170

Fast oscillation

Posterior cingulate cortex; Electroencephalographic spike; Multi-unit activity; Theta rhythm; Transcallosal evoked potential; Slow-wave sleep; Rapid-eye-movement sleep (Leung, L.-W.S.) **407**, 68

Fast spiking cell

Non-pyramidal cell; GABAergic neuron; Hippocampus; Dentate gyrus; Slice preparation; Intracellular injection of HRP (Kawaguchi, Y.) **411**, 190

Calcium-binding protein; Parvalbumin; γ -Aminobutyric acid (GABA)ergic neuron; Non-pyramidal cell; Hippocampus; Intracellular injection of Lucifer yellow; Immunohistochemistry (Kawaguchi, Y.) **416**, 369

Hippocampus; Dentate gyrus; Subiculum; Non-pyramidal cell (Kawaguchi, Y.) **425**, 351

Fast spiking neuron

Parvalbumin; Ca^{2+} binding protein; Cholecystokinin; Somatostatin; γ -Aminobutyric acidergic system; Local circuit neuron; Cerebral cortex (Kosaka, T.) **409**, 403

Fast twitch muscle fiber

Horseradish peroxidase; Motoneuron; Slow twitch muscle fiber; Tibialis anterior muscle; Soleus muscle; Ageing; Rat (Ishihara, A.) **435**, 355

Fastigial nucleus

Acetylcholine release; Atropine sulfate; Cerebral cortex; Vasodilation; Cerebral blood flow (Arnerić, S.P.) **411**, 212

Fatigue

Motor unit; Lateral rectus; Retractor bulbi; Split lateral rectus-retractor bulbi; Abducens (Gurahian, S.M.) **415**, 281

Fatty acid

Cell membrane expansion; Tissue culture; Dorsal root ganglion; Neuron; Inhibition of action potential; 2-Decenoic acid; Adult mouse (Horie, H.) **411**, 298

Feed-forward inhibition

Perforant path; Dentate gyrus; Long-term potentiation; Excitatory postsynaptic potential (EPSP); Population spike (Kairiss, E.W.) **401**, 87

Feeding

Catfish; Facial nerve; Taste; Electrophysiology; Amino acid (Kanwal, J.S.) **406**, 105

Monosodium glutamate; Bipiperidyl mustard; Cholecystokinin; Ventromedial hypothalamus; Paraventricular nucleus; Insulin; Hyperphagia; Obesity (Scallet, A.C.) **407**, 390

Medial septal lesion; Superior cervical ganglion; Peripheral sympathetic nervous system; Body weight; Drinking (Harrell, L.E.) **408**, 131

Ventral tegmental area; Monkey; Single neuron activity; Dopamine; Motor; Motivation; Vocalization (Nishino, H.) **413**, 302

Dopamine metabolite; Serotonin; Satiety (Chance, W.T.) **416**, 228

Dynorphin; Lateral hypothalamus; Opioid (Carr, K.D.) **422**, 384

Opioid; Ventral tegmental area; Periaqueductal gray; Lateral hypothalamus (Jenck, F.) **423**, 39

Transplant; Neural graft; Obesity; Ventromedial hypothalamus; Lesion; Hyperphagia; Consummatory behavior (Mickley, G.A.) **424**, 239

Glutamate; Mollusc; Amino acid; Stress; Output; Modulation (Jones, P.G.) **437**, 56

Feeding behavior

5,7-Dihydroxytryptamine; Aversive conditioning; 'Lip-CNS' preparation; Intracellular recording (Balaban, P.M.) **404**, 201

Cholecystokinin octapeptide; Cholecystokinin receptor antagonist; Dog; Blood-brain barrier; Cerebrospinal fluid (CSF) (Inui, A.) **417**, 355

Female

Brain stimulation-induced aggression; Hypothalamus; Lactation; Maternal aggression; Pregnancy; Wound pattern (Mos, J.) **404**, 263

Female hamster

Dual estradiol implant; Bilateral estradiol implant; Agonistic behavior; Scent-marking behavior; Lordosis; Medial preoptic area; Ventromedial hypothalamus (Takahashi, L.K.) **425**, 337

Female mouse

Dopamine-sensitive adenylate cyclase activity; Estradiol; Ovariectomy; Male mouse; Dopamine-stimulation (Tang, L.C.) **405**, 178

Female rat

Progesterone; Dopamine; Corpus striatum; In vitro; Amphetamine (Dluzen, D.E.) **406**, 1

Sensory innervation; External genitalia; Internal genitalia (Peters, L.C.) **408**, 199

Female sexual behavior

Hypothalamic stimulation; Hypothalamic lesion; Ovulation; Ovarian atrophy (Robison, B.L.) **418**, 41

Femoral artery

Pentobarbital; Cerebral artery; Ca^{2+} movement (Sanchez-Ferrer, C.F.) **411**, 304

Ferret

Visual cortex; Source of cholinergic input; Retrograde transport; Choline acetyltransferase immunohistochemistry (Henderson, Z.) **412**, 261

Nucleus basalis cell; Tyrosine hydroxylase; Choline acetyltransferase; Immunohistochemistry; Co-localization (Henderson, Z.) **412**, 363

Luteinizing hormone-releasing hormone (LH-RH); Pituitary; Bat; Human; High performance liquid chromatography (HPLC) (Anthony, E.L.P.) **424**, 258

Fetal alcohol syndrome

Cerebellar Purkinje neuron; Glutamate; Spontaneous activity; Development; Chronic ethanol (Yool, A.J.) **420**, 205

Fetal brain

Primate; Hippocampus; Granule cell; Golgi method; Neonatal brain (Seress, L.) **405**, 169

Phencyclidine; Embryo (Ahmad, G.) **415**, 194

Fetal neural transplant

Conditioned taste aversion; Grafting; Gustatory neocortex; Amygdala (Bermúdez-Rattoni, F.) **416**, 147

Fetal neuron

Neurite outgrowth; Tetrodotoxin; Cerebral cortex (Van Huizen, F.) **408**, 271

Fetal transplants

Frontal cortex; Acetylcholinesterase; Choline acetyltransferase; Cytochrome oxidase; Morphology (Mufson, E.J.) **401**, 162

Fetus

Parturition; Circadian rhythm; Suprachiasmatic nucleus (Reppert, S.M.) **403**, 398

Catecholamine; Cell body; Diencephalon; Distribution; Histochemistry method (Su, H.-S.) **409**, 367

Fever

Vasopressin; 1-Desamino-8-D-arginine vasopressin; Interleukin-1; Neuropeptide; Vasopressor antagonist; V_1/V_2 receptor (Naylor, A.M.) **401**, 173

Muramyl peptide; Peptidoglycan; Mass spectrometry; Sleep; Rabbit (Krueger, J.M.) **403**, 249

Muramyl peptide; Slow-wave sleep; Rapid eye movement (REM) sleep; Brain temperature; Electroencephalogram (EEG) (Krueger, J.M.) **403**, 258

Arginine vasopressin; Vasopressin; Indomethacin; Set point; Thermoregulation (Wilkinson, M.F.) **415**, 275

Acute-phase response; Rabbit; Slow-wave sleep; Glycoprotein (Shoham, S.) **419**, 223

Ambient heating; Locus coeruleus; Noradrenergic neuron; Stress (Morilak, D.A.) **422**, 17

Fiber connection

L-Enkephalin; Dorsal tegmental nucleus; Ventral tegmental nucleus; Mammillary body; Interpeduncular nucleus; Immunocytochemistry; Rat (Yamano, M.) **408**, 22

Fiber tracing

Rat; Immunohistochemistry; Colocalization; Fluoro-Gold dye; Neuropeptide; Bulbosplinal system (Millhorn, D.E.) **424**, 99

Fictive locomotion

Spinal cord; Edge cell; Lamprey; Sensory feedback (Alford, S.) **409**, 139

N-Methyl-D-aspartate receptor; Voltage

clamp; Impedance; Admittance; Voltage-dependent conductance; Excitatory synaptic current; Lamprey (Moore, L.E.) **419**, 397

Field potential

Central nervous system (CNS); Electrophysiology; Cortex; Olfaction; Interdependence; Correlation (Bressler, S.L.) **409**, 285

Central nervous system (CNS); Electrophysiology; Cortex; Olfaction; Modelling; Transmission (Bressler, S.L.) **409**, 294

Hippocampus; Sleep; Long-term synaptic enhancement; Long-term potentiation (LTP); Behavioral state; Learning; Memory (Leonard, B.J.) **425**, 174

Filipin

Cholesterol; Membrane fluidity; Intramembranous particle (IMP); Axolemma; Myelination; Lipid domain (Fields, R.D.) **404**, 21

Unmyelinated fiber; Cholesterol; Freeze-fracture (Allt, G.) **416**, 166

Fimbria

N-Acetyl-aspartylglutamate; Lateral septal nucleus; Microiontophoresis; In vitro autoradiography; Receptor (Joëls, M.) **403**, 192

Hippocampus; Serotonin; Regeneration; Supersensitivity; Fornix (Lombardi, G.) **411**, 275

Fink-Heimer

1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP); Terminal degeneration; Nigrostriatal; Dopamine; Mosaic; Dog; Striatum (Wilson, J.S.) **423**, 329

Fixation

Endoneurial microvessel; Vasomotor tone; Ultrastructure; Histologic measurement; Endothelial cell; Basement membrane (Schenone, A.E.) **402**, 151

Flaxedil

Circling behavior; Honey bee; γ -Aminobutyric acid; Acetylcholine; Muscimol; Picrotoxin; Nicotine; Lesion (Michelsen, D.B.) **421**, 14

Flocculus

Midbrain reticular stimulation; Cerebellum; Vestibular nucleus; 2-Deoxyglucose; Learning (Gonzalez-Lima, F.) **412**, 275

Fluid balance

Norepinephrine; Hypothalamus; Lamina terminalis; Median preoptic nucleus; Vasopressin; Supraoptic nucleus; α -Methyl tyrosine (Wilkin, L.D.) **423**, 369

[³H]Flunitrazepam

Progesterone; Central benzodiazepine receptor; Peripheral benzodiazepine binding site; [³H]PK 11195

(Gavish, M.) **409**, 386

Benzodiazepine receptor subtype; Human; Cerebellar cortex (Faull, R.L.M.) **411**, 379

Fluorescein isothiocyanate (FITC) dextran

Dye-coupling; Hippocampus; Ca²⁺-loading (Rao, G.) **408**, 267

Fluorescence histochemistry

Ciliary ganglion; Catecholamine; Dopamine; Tyrosine hydroxylase; Immunohistochemistry; Mammal (Uemura, Y.) **416**, 200

Fluorescent dye

Paramedian reticular nucleus; Spinal cord; Horseradish peroxidase; Axonal branching; Cardiovascular regulation; Intermediolateral nucleus (Elisevich, K.) **408**, 227

Fluorescent histochemistry

Aplysia; Neuron; Monoamine; Microspectrofluorimetry (Salimova, N.B.) **400**, 285

Fluorescent retrograde double labeling

Entopeduncular nucleus; Striatum; Habenula; Horseradish peroxidase; Rat (Takada, M.) **418**, 129

Fluorescent tracer

Rat visual system; Axonal transport; Rhodamine-B-isothiocyanate (Thanos, S.) **406**, 317

Cell death; Neuronal plasticity (Chen, K.S.) **410**, 154

Fluoro-gold

Medial basal hypothalamus; Serotonin; Midbrain; Pons; Immunohistochemistry; Fast blue (Willoughby, J.O.) **418**, 170

Noradrenergic neuron; Sympathoexcitatory neuron; Sympathoinhibitory neuron; Area postrema; Tyrosine hydroxylase immunohistochemistry (Blessing, W.W.) **419**, 336

Transforming growth factor- α ; Opioid peptide; Met-enkephalin-Arg-Gly-Leu (MERGL) peptide; Leu-enkephalin peptide; Co-localization; Interpeduncular nucleus; Raphe nucleus (Code, R.A.) **421**, 401

Rat; Immunohistochemistry; Fiber tracing; Colocalization; Neuropeptide; Bulbosplinal system (Millhorn, D.E.) **424**, 99

Fluoroacetate

Glutamate; Glutamine; Brain slice; Evoked release; Ca²⁺-dependence (Szerb, J.C.) **410**, 116

Fluoxetine

Dopamine synthesis; 5-Hydroxytryptamine synthesis; Neurointermediate lobe; Pituitary gland; Platelets; Tryptophan

(Shannon, N.J.) **402**, 287

Electroencephalographic sleep; Rapid-eye-movement (REM) sleep; Non-rapid-eye-movement sleep; Serotonin; Trifluoromethylphenylpiperazine (TFMPP); Rat (Pastel, R.H.) **436**, 92

cis-Flupenthixol

Nucleus accumbens; Neostriatum; Dopamine; Locomotor activity; Rat (Ahlenius, S.) **402**, 131

Fly

Movement detection; Behavior; Electrophysiology; Pharmacology; Picrotoxin; γ -Aminobutyric acid (GABA); *Drosophila* (Bülthoff, H.) **407**, 152

Visual deprivation; Optic lobe; Pattern discrimination; Behavior; Compound eye (Mimura, K.) **437**, 97

FMRFamide

Neuropeptide; Small cardioactive peptide SCP_B; Stomatogastric nervous system; Crustacean; Antibody (Callaway, J.C.) **405**, 295

Focal epilepsy

γ -Aminobutyric acid (GABA); Glutamate decarboxylase; γ -Aminobutyric acid receptor binding; Kindling (Löscher, W.) **420**, 385

Focal ischemia

Hyperglycemia; Infarction; Middle cerebral artery; Lactacidosis; Rat (Nedergaard, M.) **408**, 79

Food deprivation

Frontal cortex; Mesocortical; Dopamine; Stress; Ventral tegmental area (Carlson, J.N.) **400**, 200

Food intake

Rat; Ventromedial hypothalamic nucleus; Ibotenic acid; Hyperphagia; Body weight; Obesity (Shimizu, N.) **416**, 153

Food reward

Dopamine; 3,4-Dihydroxyphenylalanine (DOPA); NSD-1015; Tyrosine hydroxylase; Ventral tegmental area; Nucleus accumbens; Striatum; Olfactory tubercle; Brain-stimulation reward (Phillips, A.G.) **402**, 109

Footshock

Hypovolemia; Osmotic stimulation; Rat; Synergism; Vasopressin (Shibuki, K.) **410**, 140

A10 dopamine neuron; Enkephalin; Ventral tegmental area; Dopamine turnover (Kalivas, P.W.) **414**, 339

Forebrain

Cholecystokinin; Hamster; Hypothalamus; Paraventricular nucleus; Suprachiasmatic nucleus (Miceli, M.O.) **402**, 318

Ventral tegmental area; Occipital cortex; Substantia nigra pars compacta; Neuroanatomical differentiation; Horseradish peroxidase; Retrograde double labeling; Rat (Takada, M.) **418**, 27

Neuropeptide Y; Neuropeptide Y receptor; Autoradiography; Mammal; Species difference (Martel, J.-C.) **419**, 403

Domestic chicken; Avian; Neurotransmitter amino acid; Inhibitory synapse (Csillag, A.) **437**, 283

Forebrain ablation

Self-stimulation; Lateral hypothalamus; Brain stimulation reward (Colle, L.M.) **407**, 285

Forebrain cerebral vessel

Substance P; Trigeminal ganglion; Pia arachnoid; Capsaicin; Superior cervical ganglion; 6-Hydroxydopamine (Saito, K.) **403**, 66

Formaldehyde

Serotonin; Antibody; *Octopus vulgaris* brain; Chromatophore lobe; Palliovisceral lobe; Peroxidase-antiperoxidase (PAP) method (Uemura, T.) **406**, 73

Formoguanamine (2,4-diamino-S-triazine)

Proline; Ornithine; Arginine; Brain; Retina; Ornithine- δ -aminotransferase; Δ^1 -Pyrroline-5-carboxylate reductase (Matsuzawa, T.) **413**, 314

Fornix

Hippocampus; Serotonin; Regeneration; Supersensitivity; Fimbria (Lombardi, G.) **411**, 275

Epilepsy; Gerbil; Hippocampus; Lesion; Perforant path (Ribak, C.E.) **418**, 146

Forskolin

Memory retention; Hypoxia; Cyclic adenosine monophosphate (cAMP) (Ando, S.) **405**, 371

Soman; Diaphragm; Compound action potential (Bradley, R.J.) **425**, 401

Fourth ventricle

Adenosine analog; Blood pressure; Heart rate; Caffeine (Barraco, R.A.) **424**, 17

FPL-55712

Leukotriene; Luteinizing hormone-releasing hormone; Somatostatin; Median eminence (Geroziassis, K.) **416**, 54

Free bilirubin

Hyperbilirubinemia; Bilirubin encephalopathy; Rat; Behavior; Open-field; Blood-brain barrier; Exploration (Hansen, T.W.R.) **424**, 26

Free fatty acid

Seizure; Phosphatidylinositol; Triacylglycerol; Diacylglycerol; Rat (Yoshida, S.) **412**, 114

Free intracellular calcium

Putrescine; Spermine; Spermidine; Synaptosome; Calcium uptake (Komulainen, H.) **401**, 50

Free radical

Spin trapping; Electron spin resonance; Brain ischemia; Lipid peroxidation (Tominaga, T.) **402**, 370

Free-running

Aging; Sleep-wakefulness; Circadian rhythm; Period length; Rat (Van Gool, W.A.) **413**, 384

Freely moving animal

Proprioception; Reflex; Load compensation; Insect; Chordotonal organ (Zill, S.N.) **417**, 195

Freely moving rat

Dopamine; Electrophysiology; Apomorphine; Cholecystokinin; Midbrain (Freeman, A.S.) **405**, 46

Freeze substitution

Hypertension; CO₂ reactivity; Vascular reactivity; Hypercapnia; Hypocapnia (Yoshida, F.) **412**, 1

Freeze-fracture

Unmyelinated fiber; Filipin; Cholesterol (Allt, G.) **416**, 166

Estradiol; Arcuate nucleus; Hypothalamus; Plasma membrane; Neuronal membrane; Synapse; Sex-difference (Olmos, G.) **425**, 57

Freeze-fracturing

Ranvier's node; Wallerian degeneration; Frog; Sciatic nerve; Myelin; Demyelination; Axolemma (Ishise, J.) **418**, 85

Freezing

Pacinian corpuscle; Inner core; Extracellular matrix; Basal lamina; Nerve regeneration (Ide, C.) **413**, 155

Frequency modulation

Acetylcholine release; Brain slice; Calcium; Hippocampus (Pohorecki, R.) **420**, 199

Frog

Sympathetic neuron; C-fibre; Conduction velocity; Axotomy; Autonomic ganglion (Shapiro, J.) **410**, 186

Compensatory eye movement; Central pattern generator; Tadpole; Larva (Stehouwer, D.J.) **410**, 264

Choline acetyltransferase; Immunohistochemistry; Nucleus isthmi; Optic tectum; *Rana pipiens* (Desan, P.H.) **413**, 344

Enkephalin; Evolution; Hypothalamus;

Immunocytochemistry; Optic tectum; Peptide; Toad (Merchenthaler, I.) **416**, 219

Retinal bipolar cell; Subpopulation; Monoclonal antibody; MAb 5A10; Cell-surface antigen; Vertebrate (Onoda, N.) **416**, 359

Ranvier's node; Wallerian degeneration; Sciatic nerve; Freeze-fracturing; Myelin; Demyelination; Axolemma (Ishise, J.) **418**, 85

Fast axonal transport; Nerve regeneration; Conditioning lesion; Protein; Nerve crush; 2D-Gel (Perry, G.W.) **423**, 1

Frog muscle spindle

Fusimotor innervation; Enhancement of static component; Decay in dynamic component; Glycogen depletion; Small diameter intrafusal muscle fiber (Fujitsuka, N.) **415**, 144

Frog neuromuscular junction

Miniature endplate potential (MEPP) frequency; MEPP amplitude; Spatial decay method; Transmitter release; Non-uniformity (Robitaille, R.) **408**, 353

Frog olfactory axon

Microtubule; Olfactory axon; Microtubule length; Microtubule number; Axonal microtubule; Axon (Burton, P.R.) **409**, 71

Frog sensory neuron

γ -Aminobutyric acid; Chloride current; Calcium current; Internal perfusion; Concentration-clamp technique (Inoue, M.) **404**, 301

Ca current; Ca antagonist; Open channel block; Concentration clamp (Oyama, Y.) **417**, 143

Frog spinal motoneuron

Quisqualate; N-methyl-D-aspartate; Kainate; After-hyperpolarization; Sodium pump (Hackman, J.C.) **407**, 94

Frog tongue

Latency; Taste stimulus; Fungiform papillae; Gustatory neural impulse; Receptor potential (Sato, T.) **424**, 333

Frontal cerebral cortex

Dihydropyridine; Hippocampus; Spontaneously hypertensive rat (SHR); Senescence; PN 200-110 (Huguet, F.) **412**, 125

Frontal cortex

Food deprivation; Mesocortical; Dopamine; Stress; Ventral tegmental area (Carlson, J.N.) **400**, 200

Fetal transplants; Acetylcholinesterase;

Choline acetyltransferase; Cytochrome oxidase; Morphology (Mufson, E.J.) **401**, 162

Dopamine; Noradrenaline; Ventral tegmental area; Septum; Attention; Conditioned blocking; Active avoidance (Oades, R.D.) **406**, 136

Alzheimer's disease; Microtubule; Dendrite (Paula-Barbosa, M.) **417**, 139

γ -Aminobutyric acid (GABA) uptake; Synaptosome; Human (Sidhu, H.S.) **435**, 334

3(2-Carboxypiperazin-4-yl)-propyl-1-phosphonic acid (CPP); Hyperactivity; Locomotion; *N*-Methyl-D-aspartate (O'Neill, K.A.) **435**, 371

Iminodipropionitrile; ECC-syndrome; 125 I-LSD binding site; 5-HT-2 receptor; Striatum; Nucleus accumbens; Autoradiography (Cadet, J.L.) **437**, 383

Frontal eye field

Eye movement; Monocular movement; Oculomotor area; Coronal sulcus; Anterior ectosylvian sulcus; Cat (Nakai, M.) **414**, 91

Precruciate cortex; Presylvian cortex; Gyrus preceus; Prefrontal cortex; Paramedian pontine reticular formation; Oculomotor system; Cat; Horseradish peroxidase (Leichnetz, G.R.) **416**, 195

Frontal/parietal cortex

Tryptamine; Receptor binding; Down-regulation; Monoamine oxidase inhibitor; Clorgyline; Chronic treatment (Martin, L.L.) **419**, 239

Fucose

Hippocampus; Area dentata; Perforant path; Active avoidance; Post-tetanic long-term potentiation (LTP); Post-conditioning long-term potentiation (LTP); Glycoprotein; Memory formation (Pohle, W.) **410**, 245

β -Funaltrexamine (B-FNA)

Opioid analgesia; Non-opioid analgesia; Stress; Naloxone; ICI 154,129; Snail; Evolution (Kavaliers, M.) **410**, 111

Function

Purified insulin receptor; Bovine peripheral nervous system; Phosphorylation; Paleocortex; Liver; Superior cervical ganglion; Trigeminal ganglion; Structure (Waldbillig, R.J.) **409**, 215

Functional activity

NADPH diaphorase; Neurohypophysis; Vasopressin; Oxytocin (Sagar, S.M.) **400**, 348

Functional morphology

Dorsal root ganglion cell; Slowly conducting fiber; Dichotomizing fiber;

Intracellular horseradish peroxidase; Soma size distribution (Hoheisel, U.) **423**, 269

Functional recovery

Hemilabyrinthectomy; Eye movement; Plasticity (Petrosini, L.) **418**, 398

Weaver mutant mouse; Nigral transplant; Dopamine; Striatum; Rotational behavior; Parkinson disease (Low, W.C.) **435**, 315

Fungiform papilla

Chorda tympani; Lingual nerve; Denervation; Taste bud; Hamster (Whitehead, M.C.) **405**, 192

Fungiform papillae

Latency; Frog tongue; Taste stimulus; Gustatory neural impulse; Receptor potential (Sato, T.) **424**, 333

Fura-2 fluorometry

Cytoplasmic Ca^{2+} ; Hippocampal slice; Granule cell; L-Glutamate (Kudo, Y.) **407**, 168

Fusimotor innervation

Frog muscle spindle; Enhancement of static component; Decay in dynamic component; Glycogen depletion; Small diameter intrafusal muscle fiber (Fujitsuka, N.) **415**, 144

G

G-protein

Serotonin; Hippocampus; Population spike; Adenylate cyclase; Pertussis toxin (Clarke, W.P.) **410**, 357

Pertussis toxin; Adenosine diphosphate ribosylation; Opioid; Adenylate cyclase (Abood, M.E.) **417**, 70

Guanosine 5'-triphosphate (GTP); Guanosine-5'-O-(3-thiotriphosphate) (GTP γ S); Hyperpolarization; Locus coeruleus; Morphine; Pertussis toxin (Wang, Y.-Y.) **436**, 396

G_{M1} gangliosidosis

Calcium flux; Synaptosome (Koenig, M.L.) **424**, 169

GABA (see also γ -Aminobutyric acid)

Spinal cord; Dorsal horn; Nociceptive neuron; Inhibition; Muscle afferent; Bicuculline (Morris, R.) **401**, 365

GABA metabolism

Primary cultured γ -aminobutyric acid (GABA)ergic neuron; GABA receptor; Benzodiazepine receptor; Development (Kuriyama, K.) **416**, 7

GABA receptor

Primary cultured γ -aminobutyric acid

(GABA)ergic neuron; GABA metabolism; Benzodiazepine receptor; Development (Kuriyama, K.) **416**, 7

γ -Aminobutyric acid (GABA); Substantia nigra; Chronic haloperidol; Supersensitivity; Microiontophoresis; Glycine (Frey, J.M.) **425**, 73

GABA synthesis

Glutamate decarboxylase; Multiple enzyme form (Spink, D.C.) **421**, 235

GABA_A receptor

γ -Aminobutyric acid (GABA); Lactotroph; Prolactin; Chloride channel; Patch clamp (Inenaga, K.) **405**, 159

Haloperidol; Cerebral cortex; Brainstem; Adrenoceptor; Muscarinic receptor; Benzodiazepine receptor (Pazo, J.H.) **414**, 405

Muscimol; Circle of Willis artery; Pial-arachnoid vessel; Autoradiography; Rat (Napoleone, P.) **423**, 109

GABA_A receptor blocker

γ -Aminobutyric acid (GABA) receptor; Picrotoxin (TBPS) receptor; Convulsant (Squires, R.F.) **414**, 357

GABA_A-receptor

Astrocyte; γ -Aminobutyric acid (GABA); Chloride-channel; Neurotransmitter; Rat (Kettenmann, H.) **404**, 1

GABAergic neuron

Non-pyramidal cell; Fast spiking cell; Hippocampus; Dentate gyrus; Slice preparation; Intracellular injection of HRP (Kawaguchi, Y.) **411**, 190

GABAergic synapse

Benzodiazepine receptor; Glutamate decarboxylase; Immunohistochemistry; Primate retina (Mariani, A.P.) **415**, 153

GABAergic transmission

Pentobarbital; Spinal cord; Nociception; Naloxone; Bicuculline; Picrotoxinin; Intrathecal (Stein, C.) **407**, 307

Gabaculine

Retina; Rat; γ -Aminobutyric acid (GABA); γ -Acetylenic GABA; γ -Vinyl GABA (Cubells, J.F.) **419**, 208

Galactocerebroside

Schwann cell line; Simian virus 40 (SV40) transformation; Myelin-protein; P₀ protein; P₀ mRNA; Myelin-associated glycoprotein; 2':3'-Cyclic nucleotide 3'-phosphodiesterase; Sulfatide (Chen, G.L.) **414**, 35

Galactocerebroside antibody

Demyelination; Reactive astrocyte; Shared antigen; Glialfibrillary acidic protein antibody; Optic nerve (Carroll, W.M.) **411**, 364

β -Galactosidase

α -Mannosidase; Hexosaminidase;

β -Glucuronidase; Acid phosphatase;
 β -Glucosidase; Pineal; Retina;
Lysozyme; Rhythm (Vaughan, M.K.)
417, 321

Gallus domesticus

Synaptic structure; Paleostriatal
complex; Passive avoidance;
Hemispheric difference
(Stewart, M.G.) **426**, 69

Ganglion activity

Nervus terminalis; Elasmobranch;
Efferent impulse; Suppression
(White, J.) **400**, 159

Ganglion cell

Retina; Horizontal cell; Receptive
field; Surround excitability; Rabbit
(Mangel, S.C.) **414**, 182

Retina; Kainic acid; Tectum;
Degeneration; Excitotoxicity; Synapse
(Ehrlich, D.) **415**, 342

Immunocytochemistry; Retina;
LANT-6; Amacrine cell; Biochemistry
(Eldred, W.D.) **424**, 361

Retina; Monoclonal antibody; Albino;
Rabbit (Oyster, C.W.) **425**, 25

Retina; Kainic acid; Optic tectum;
Trophic factor; Development;
Horseradish peroxidase (Tung, N.N.)
435, 153

Ganglion cell survival

Eye lesion; Peripheral nerve implant
(Turner, J.E.) **419**, 46

Ganglioside

Nerve regeneration; Chamber model;
Laminin; Testosterone; Catalase
(Müller, H.) **413**, 320

Sprouting; Behavioral recovery;
Entorhinal cortex; Hippocampus;
Learned alternation (Ramirez, J.J.)
414, 85

Ganglioside GD₃

Primary cultured neuron; Epilepsy;
Immunocytochemistry; Mutant El
mouse (Sugaya, E.) **406**, 270

Gap junction

Electrotonic synapse; PH; Diurnal
rhythm (Moreno, A.P.) **400**, 181

Dolphin brain; Blood-brain barrier;
Glia; Tight junction; Brain capillary;
Angioarchitectonics;
Glioarchitectonics; Glio-glial junction;
Astroglia-like cell (Glezer, I.I.)
414, 205

Nociceptor; C-fiber; Pain; Ephapse;
Electrotonic; Reflex sympathetic
dystrophy; Sympathetic nervous system
(Meyer, R.A.) **437**, 181

Gas chromatography-mass spectrometry (GC/MS)

Salsolinol; Catecholamine; Ethanol;
Acetaldehyde; Rat brain
(Matsubara, K.) **413**, 336

Gastric acid

Brain; Thyrotropin-releasing hormone
(Hernandez, D.E.) **401**, 381

Corticotropin releasing factor;
Paraventricular nucleus; Ventromedial
nucleus; Lateral hypothalamus;
Caudate-putamen (Gunion, M.W.)
411, 156

Gastric secretion

Gastrin; Hypothalamus; Ventromedial
nucleus; Lateral hypothalamus; Brain;
Microinfusion; Caudate-putamen
(Gunion, M.W.) **422**, 118

Gastrin

β -Endorphin; Acid secretion;
Autonomic nervous system; Vagotomy
(Lenz, H.J.) **413**, 1

Hypothalamus; Ventromedial nucleus;
Lateral hypothalamus; Brain;
Microinfusion; Gastric secretion;
Caudate-putamen (Gunion, M.W.)
422, 118

Gastroduodenum

Autoradiography; Vagal afferent fiber;
Axonal transport; Nodose ganglion;
Rabbit (Sato, M.) **400**, 101

Gastropod

Monoamine; Serotonin;
Catecholamine; *Hermisenda*
(Croll, R.P.) **405**, 337

Gastropod neuron

Neurite regeneration; Somatostatin;
Calcitonin; Growth factor
(Grimm-Jørgensen, Y.) **403**, 121

Gating mechanism

Recovery of function; Dopamine;
Ventromedial hypothalamic nucleus;
Defensive attack; Lateral septum
(Maeda, H.) **407**, 381

Gaze direction

Semicircular canal; Extraocular muscle;
Spatial geometry; Rat (Daunicht, W.J.)
435, 48

Gaze stabilization

Eye-head coordination; Quick phase;
Vestibular reflex; Saccade
(Dieringer, N.) **404**, 33

Gekko brain

D₂ receptor; Acetylcholine release; Rat
brain; Telencephalic structure
(Stoof, J.C.) **404**, 273

2D-Gel

Fast axonal transport; Nerve
regeneration; Conditioning lesion;
Protein; Nerve crush; Frog
(Perry, G.W.) **423**, 1

Gel filtration chromatography

Prolactin; Brain; Anterior Pituitary;
Radioimmunoassay; Bioassay;
Hypophysectomy; Restraint stress
(Emanuele, N.V.) **421**, 255

General cortex

Intrinsic neuron; Local circuit neuron;

Relay cell; Reptile; Thalamus
(Pritz, M.B.) **409**, 146

Generalized epilepsy

Cortical neuron; Spike and wave;
Penicillin (Giarretta, D.) **405**, 68

Genetic

Activity; Stress-induced analgesia;
Immobilization; Opioid analgesia;
Naloxone; ICI 154, 129; Deer mice;
Peromyscus maniculatus; Sex;
Island-Mainland population
(Kavaliers, M.) **425**, 49

Self-stimulation; Nucleus accumbens;
Stress (Zacharko, R.M.) **426**, 164

Genetic selection

Brain weight development; Biometrical
analysis (Hewitt, J.K.) **417**, 225

Geniculate relay cell

Eastern chipmunk (*Tamias sibiricus
asiaticus*); Spectral response; Receptive
field; Conduction latency
(Wakakuwa, K.) **404**, 211

Genotype

Spinal nucleus of the bulbocavernosus;
House mouse; Castration;
Motoneuron; Strain difference;
Androgen (Wee, B.E.F.) **424**, 305

Gerbil

Seizure; Enkephalin; Dynorphin
(Lee, R.J.) **401**, 353

Epilepsy; Hippocampus; Lesion;
Perforant path; Fornix (Ribak, C.E.)
418, 146

Cerebral blood flow; Cerebral
ischemia; Immunohistochemistry;
Quantitative autoradiography
(Matsumoto, M.) **424**, 231

Giant axonal neuropathy

Axonal transport; Carbon disulfide;
Neurofilament; Toxic neuropathy
(Pappolla, M.) **424**, 272

Giant PSP

Aminopyridine; Epilepsy; Neocortex;
Bursting activity (Szente, M.) **413**, 368

Glaucoma

Sex-linked recessive gene; Buphtalmos;
Albino quail (Weidner, C.) **419**, 357

Glia

Dolphin brain; Blood-brain barrier;
Tight junction; Gap junction; Brain
capillary; Angioarchitectonics;
Glioarchitectonics; Glio-glial junction;
Astroglia-like cell (Glezer, I.I.)
414, 205

Neuron; Glial-neuronal interaction;
Proline; Leucine; Axonal transport
(Berkley, K.J.) **414**, 49

Nucleus submedius; Thalamus;
Synaptic glomerulus; Trigeminal
nucleus (Ma, W.) **415**, 331

Neuron; Bouton; Dendrite; Capillary;

Mitochondria; Rat; Plasticity; Memory; Learning (Sirevaag, A.M.) **424**, 320

Glial cell

2-Deoxyglucose; Autoradiography; Cellular resolution; Neuron (Duncan, G.E.) **401**, 43

Neurite outgrowth; Insect; Central nervous system explant; Electron microscopy (Vanhems, E.) **411**, 129

Apamin; Cultured astrocyte; Photoaffinity labeling; Potassium channel; Receptor subunit (Seagar, M.J.) **411**, 226

Astrocyte; Barium; Cell culture; Ion homeostasis (Walz, W.) **412**, 405

Electrogenic pump; Extracellular K^+ ; Na^+ , K^+ -ATPase; Epilepsy; Cerebral cortex (Onozuka, M.) **420**, 259

Aromatic-L-amino acid; Decarboxylation (Juorio, A.V.) **426**, 183

Glial fibrillary acidic protein

Estradiol; Hippocampus; Arcuate nucleus; Hypothalamus; Globus pallidus; Astrocyte; Immunohistochemistry (Tranque, P.A.) **406**, 348

Nervous system injury; PH; pO_2 ; Brain cell culture; Neuron; Astrocyte; Differentiation; Neurofilament protein (Bologa, L.) **411**, 282

Hyperthermia; Microwave; Brain damage; Response to injury; Rat (Miller, D.B.) **415**, 371

Glial fibrillary acidic protein (GFA-protein)

Astroglia; In-situ hybridization; CDNA probe; Immunohistochemistry; Regional difference of GFA-protein; Heterogeneity of astroglia (Kitamura, T.) **423**, 189

Glial fibrillary acidic protein (GFAP)

Neuroglia; Astrocyte; White matter; Spinal cord; Rat (Liuzzi, F.J.) **403**, 385

Glial induction

Cerebral endothelium; Blood-brain barrier (Maxwell, K.) **410**, 309

Glial-neuronal interaction

Glia; Neuron; Proline; Leucine; Axonal transport (Berkley, K.J.) **414**, 49

Glialfibrillary acidic protein antibody

Demyelination; Reactive astrocyte; Shared antigen; Galactocerebroside antibody; Optic nerve (Carroll, W.M.) **411**, 364

Glio-glial junction

Dolphin brain; Blood-brain barrier; Glia; Tight junction; Gap junction; Brain capillary; Angioarchitectonics;

Glioarchitectonics; Astroglia-like cell (Glezer, I.I.) **414**, 205

Glioarchitectonics

Dolphin brain; Blood-brain barrier; Glia; Tight junction; Gap junction; Brain capillary; Angioarchitectonics; Glio-glial junction; Astroglia-like cell (Glezer, I.I.) **414**, 205

Glioma cell

Atrial natriuretic polypeptide; Atriopeptin; Hyperpolarization; Membrane potential (Reiser, G.) **402**, 164

Angiotensin; Bradykinin; Electrophysiology; Desensitization (Höpp, H.-P.) **412**, 175

Cytotoxic edema; Cytoplasmic pH; Cell swelling; Na^+ / H^+ exchange; Astrocyte; Amiloride (Jakubovicz, D.E.) **435**, 138

Gliososis

Excitotoxin; Quinolinic acid; Hippocampus; Brain lesion; Neurodegenerative disorder (Speciale, C.) **436**, 18

Global brain ischemia

Endothelial microvilli; Postischemic hypoperfusion; Microvasculature; Transmission electron microscopy (Kumar, K.) **421**, 309

Globoid cell leukodystrophy

Krabbe disease; Twitcher Mouse; Cuprizone; Demyelination; Blood-brain barrier (Kondo, A.) **425**, 186

Globus pallidus

Neuronal hypertrophy; Retrograde cell degeneration; Substantia nigra (Pearson, R.C.A.) **400**, 127

Substantia nigra; Dopamine; Autoreceptor; Dopamine agonist; D_1 receptor; D_2 receptor; Single unit recording (Carlson, J.H.) **400**, 205

Estradiol; Hippocampus; Arcuate nucleus; Hypothalamus; Astrocyte; Glial fibrillary acidic protein; Immunohistochemistry (Tranque, P.A.) **406**, 348

Basal Ganglion; Single unit; Limb Movement (Mink, J.W.) **417**, 393

Lys⁸-Asn⁹-Neurotensin(8-13); Neuromedin N; Basal ganglion; Striatum; Monkey; Immunohistochemistry (Reiner, A.) **422**, 186

Acetylcholine; Enkephalin; Dual-immunocytochemistry (Chang, H.T.) **426**, 197

Basal ganglia; Dopamine; Tyrosine hydroxylase; Primate; Immunohistochemistry (Parent, A.) **426**, 397

Subthalamic nucleus; Spinal cord; Extrapyramidal system; Basal ganglia;

Retrograde fluorescent labeling; Rat (Takada, M.) **436**, 129

Neutral endopeptidase; Opioid receptor; Caudate putamen; Substantia nigra; Kainic acid; Colchicine; 6-Hydroxydopamine (Waksman, G.) **436**, 205

Glomerular cell layer

Olfactory bulb; Substance P; γ -Aminobutyric acid (GABA); Electrophysiology; Slice (Olpe, H.R.) **412**, 269

Glossopharyngeal

Vagus; Accessory nerve; Elasmobranch; Horseradish peroxidase; Nucleus ambiguous (Barry, M.A.) **425**, 159

Glossopharyngeal nerve

Petrosal ganglion; Sensory neuron; Membrane property (Morales, A.) **401**, 340

Glucocorticoid

Dexamethasone; Acetylcholine; Physostigmine; Neuromuscular junction; Myasthenia gravis (Veldsema-Currie, R.D.) **400**, 196

Corticotropin releasing factor; Neurosecretion; Paraventricular nucleus; Steroid feedback; Vasopressin (Sawchenko, P.E.) **403**, 213

γ -Aminobutyric acid (GABA) receptor; t -[³⁵S]Butyl bicyclopophosphorothionate (TBPS) binding (Majewska, M.D.) **418**, 377

Aldosterone; Corticosterone; Hippocampus; Hypothalamus; Receptor; Mineralocorticoid (Yongue, B.G.) **436**, 49

Glucocorticoid receptor

Spinal cord; Hippocampus; RNAase A; Corticosterone; Dexamethasone; DNA-cellulose binding (Moses, D.F.) **408**, 118

Glucose

¹⁴CO₂ production; Pyruvate; Oxidation (Tildon, J.T.) **403**, 127

Glycogen; Microwave; Brain (Sagar, S.M.) **417**, 172

Hippocampal slice; Ca₁ population spike; Hypoxia (Schurr, A.) **421**, 135

Glucose metabolism

Brain cell; Anomeric specificity (Malaisse, W.J.) **419**, 147

Alzheimer's disease; Pick's disease; Mitochondrion (Sims, N.R.) **436**, 30

Glucose transport

Vanadate; Vanadyl; Insulin; Hyperglycemia; Central nervous system; Autonomic nervous system; Mouse (Amir, S.) **419**, 392

Glucose utilization

Striatum; Caudate nucleus; Basal ganglia; [¹⁴C]Deoxyglucose; Apomorphine; Dopamine

(Brown, L.L.) **411**, 65

Electroconvulsive shock; Hippocampus; Deoxyglucose; Seizure (Orzi, F.) **423**, 144

γ -Aminobutyric acid (GABA); Progabide; [^{14}C]2-Deoxyglucose technique; Muscimol; Central serotonergic neuron (Cudennec, A.) **423**, 162

Phencyclidine; Deoxyglucose; Limbic system; σ -Receptor; Brain imaging (Weissman, A.D.) **435**, 29

Autoradiography; 2-Deoxyglucose; Serotonin; 5-HT_{1A} receptor; Ipsapirone; Hippocampus; Rat (Wree, A.) **436**, 283

β -Glucosidase

α -Mannosidase; β -Galactosidase; Hexosaminidase; β -Glucuronidase; Acid phosphatase; Pineal; Retina; Lysozyme; Rhythm (Vaughan, M.K.) **417**, 321

β -Glucuronidase

α -Mannosidase; β -Galactosidase; Hexosaminidase; Acid phosphatase; β -Glucosidase; Pineal; Retina; Lysozyme; Rhythm (Vaughan, M.K.) **417**, 321

Glutamate

Aspartate; Neurotransmitter; Pulvinar; Visual cortex; Rat (Fosse, V.M.) **400**, 219

Picrotoxin; Preoptic area; Locomotion (Sinnamon, H.M.) **400**, 270

Progesterone; Sex steroid; Cerebellar Purkinje cell; γ -Aminobutyric acid (GABA); Neuromodulation; Neuronal responsiveness; Anxiolytic action (Smith, S.S.) **400**, 353

N-Acetylaspartylglutamate; Aspartate; Cultured neuron; Chick cerebellum; Antagonist; Intracellular recording (Mori-Okamoto, J.) **401**, 60

Locus coeruleus; Deoxycorticosterone acetate (DOCA)-salt hypertension; Epinephrine (Berecek, K.H.) **401**, 303

Excitatory amino acid; Binding site; Aspartate; Cysteine sulfinate (Pin, J.-P.) **402**, 11

Cerebellar neuron; Patch-clamp; Aspartate (Cull-Candy, S.G.) **402**, 182

Glutamic oxaloacetic transaminase; Isozyme; Immunohistochemistry; Primary sensory neuron; Rat (Inagaki, N.) **402**, 197

Quisqualate; (RS)- α -amino-3-hydroxy-5-methyl-isoxazole-4-propionic acid (AMPA); Excitatory amino acid receptor (Olsen, R.W.) **402**, 243

Immunocytochemistry; Lateral olfactory tract; Mitral cell;

N-Acetyl-aspartyl-glutamate; Neuropeptide; Olfactory bulb (Blakely, R.D.) **402**, 373

Protein kinase C; Phorbol ester; Transmitter release; Hippocampus; Calcium (Malenka, R.C.) **403**, 198

Neurotoxicity; Cytotoxicity; Dextrophan; Opiate; Dextromethorphan; Cortex; Cell culture (Choi, D.W.) **403**, 333

Respiration; Sleep waking; Iontophoresis; Chronic cat (Foutz, A.S.) **404**, 10

Adenosine antagonist; Adenosine agonist; Hippocampus; Cerebellum; Transmitter release; Excitatory postsynaptic potential (EPSP) (Prestwich, S.A.) **405**, 130

Cholecystokinin; γ -Aminobutyric acid; Diazepam; Picrotoxin; Kynurenic acid (Yaksh, T.L.) **406**, 207

Fluoroacetate; Glutamine; Brain slice; Evoked release; Ca²⁺-dependence (Szerb, J.C.) **410**, 116

Aspartate; Immunohistochemistry; Nerve terminal pool; Rat limbic system (Yoshida, M.) **410**, 169

Locus coeruleus; Central nervous system; Blood pressure; Heart rate; Vasopressin; 6-Hydroxydopamine (Sved, A.F.) **414**, 119

Rat; Septohippocampal pathway; Axonal terminal excitability; Antidromic stimulation; Microiontophoresis; γ -Aminobutyric acid (GABA); Impulse flow; Autoreceptor (Dutar, P.) **418**, 98

Cerebellar Purkinje neuron; Spontaneous activity; Development; Fetal alcohol syndrome; Chronic ethanol (Yool, A.J.) **420**, 205

Cerebellum; Immunocytochemistry; Electron microscopy (Clements, J.R.) **421**, 343

Estrogen; Cerebellar Purkinje cell; Evoked excitation; Neuromodulation (Smith, S.S.) **422**, 40

Progesterone; Estrogen; Cerebellar Purkinje cell; γ -Aminobutyric acid; Neuronal responsiveness; Neuromodulation; Anxiolytic (Smith, S.S.) **422**, 52

Hypoxia; Anoxia; Cell culture; Astrocyte; Neuron-specific enolase; γ -D-Glutamylglycine (Vibulsreth, S.) **422**, 303

Amygdaloid kindling; Aspartate (Mori, N.) **425**, 45

Cerebellum; Electrosensory lateral line lobe; Amino acid; Aspartate; γ -Aminobutyric acid; Taurine; Glycine (Nadi, S.) **425**, 218

Amino acid; Aminobutyric acid; Mudpuppy; Retina; Retinal ganglion cell; Synaptic receptor (Arkin, M.S.) **426**, 142

Adenosine; Modulation; Synaptic transmission; Rat hippocampal slice (Proctor, W.R.) **426**, 187

Partial epilepsy; Premotor cortex; Striatum; γ -Aminobutyric acid (GABA); Acetylcholine (Ono, K.) **435**, 84

Regulation of respiration; Ventral medulla; Phrenic nerve; Arterial pressure; Cat (Lawing, W.L.) **435**, 322

Brain lesion; Ibotenate; Noradrenaline; Inositol phospholipid hydrolysis (Nicoletti, F.) **436**, 103

Mollusc; Feeding; Amino acid; Stress; Output; Modulation (Jones, P.G.) **437**, 56

Neurotoxicity; Cytotoxicity; Homocysteic acid; Homocysteate; Cortical neuron; Cell culture; N-Methyl-D-aspartate (NMDA); Excitatory amino acid (Kim, J.P.) **437**, 103

L-Glutamate

Cytoplasmic Ca²⁺; Hippocampal slice; Granule cell; Fura-2 fluorometry (Kudo, Y.) **407**, 168

Glutamate binding

Astrocyte; Astrocyte implant; Autoradiography (Bridges, R.J.) **415**, 163

[^3H]Glutamate binding

Ca²⁺ ion; Cl⁻-dependent binding; Cl⁻-dependent and Ca²⁺-stimulated binding; Anion transport carrier; D-Aspartate; Quisqualic acid; Protease inhibitor (Yoneda, Y.) **400**, 70

Rat adrenal; Stereo- and structure-selectivity; N-methyl-D-aspartic acid; 2-Amino-3-phosphonopropionic acid; Kynurenic acid; Solubilization of binding site (Yoneda, Y.) **406**, 24

Glutamate binding activity

2,4-Dihydroxyphenylacetic acid; Spider toxin; Mechanism of biological action; Effect of ferric ion (Pan-Hou, H.) **418**, 198

Glutamate hypersensitivity

Subthalamic nucleus; Bilateral decortication; Microiontophoresis (Rouzaire-Dubois, B.) **403**, 366

Glutamate microinjection

Stimulation-produced antinociception; Arterial pressure; Vascular resistance; Heart rate; Lateral reticular nucleus (Janss, A.J.) **405**, 140

Paraventricular nucleus; Tuberoinfundibular neuron;

Baroreceptor; A₁-catecholaminergic area (Kannan, H.) **409**, 358

Glutamate receptor

Colchicine; Hippocampal lesion; Alzheimer's disease; Choline acetyltransferase activity; T-maze learning (Nakagawa, Y.) **408**, 57

Synapse; GTP binding protein; Pertussis toxin; Islet activating protein (IAP); Joro spider toxin (JSTX) (Miwa, A.) **416**, 162

Rat superior colliculus; Cultured neuron; Ionic current; *N*-Methyl-D-aspartate; Quisqualate; D-Amino-phosphonovaleric acid (Grantyn, R.) **420**, 182

L-Glutamate receptor

Quisqualate receptor; Retina; Excitatory amino acid; α -Amino-3-hydroxy-5-methylisoxazole-4-propionic acid (AMPA) (López-Colomé, A.M.) **414**, 99

Glutamate receptor antagonism

β -*N*-Methylamino-L-alanine (BMAA); β -*N*-Oxalylamino-L-alanine (BOAA); 2-Amino-7-phosphonoheptanoic acid (AP7); *cis*-2,3-Piperidine dicarboxylic acid (PDA); Organotypic tissue culture (Ross, S.M.) **425**, 120

Glutamate release

Veratridine- and potassium-induced release; Calcium dependence of release; Tetrodotoxin; Anoxia; Hypoxia; Rat; Development of release (Minc-Golomb, D.) **402**, 255

Glutamate response

Purkinje neuron; Granule cell; Culture; Ethanol; Spontaneous activity (Franklin, C.L.) **416**, 205

Glutamatergic neurotransmission

Glutaminase; Retina; Quantitative histochemistry; Rat; Guinea pig; Metabolism (Ross, C.D.) **401**, 168

Glutamic acid decarboxylase

Human hippocampus; Immunocytochemistry; Basket cell; Electron microscopy (Schlander, M.) **401**, 185

Choline acetyltransferase; Rabbit retina; Immunocytochemistry; Acetylcholinesterase; Dendritic stratification (Brandon, C.) **401**, 385

Dopamine; Tyrosine hydroxylase; γ -Aminobutyric acid; Coexistence; Olfactory bulb; Postnatal development; Immunohistochemistry (Kosaka, K.) **403**, 355

Neuronal cell culture; Neuronal-glial interaction; Brain development (Aizenman, Y.) **406**, 32

Tyrosine hydroxylase; Rat; Neostriatum; Immunohistochemistry; Synaptic input (Kubota, Y.) **406**, 147

Coexistence; Retrograde fiber tracing;

5-Hydroxytryptamine; Bulbospinal projection; Raphe complex; Rat (Millhorn, D.E.) **410**, 179

Light microscopy; Glutamine synthetase; Electron microscopy; γ -Aminobutyric acid (GABA); Area postrema; Immunocytochemistry; Cat (D'Amelio, F.E.) **410**, 232

Benzodiazepine receptor; GABAergic synapse; Immunohistochemistry; Primate retina (Mariani, A.P.) **415**, 153

Chronic bombesin; [³H]Spiperone binding; Choline acetyltransferase; Rat brain; Acetylcholinesterase (Hsu, L.L.) **417**, 232

Dissociated cell culture; Spinal cord; Motoneuron; Mouse; Choline acetyltransferase (Guthrie, P.B.) **420**, 313

γ -Aminobutyric acid (GABA); Ca²⁺ binding protein; Parvalbumin; Local circuit neuron; Hippocampus; Dentate gyrus; Immunohistochemistry (Kosaka, T.) **419**, 119

γ -Aminobutyric acid (GABA); γ -Aminobutyric acid receptor binding; Kindling; Focal epilepsy (Löscher, W.) **420**, 385

Excitotoxin; Choline acetyltransferase; Peripheral type benzodiazepine binding site; Rat striatum (Benavides, J.) **421**, 167

GABA synthesis; Multiple enzyme form (Spink, D.C.) **421**, 235

Sensory deprivation; Cytochrome oxidase; Thalamus; Reticular nucleus (Land, P.W.) **425**, 178

Deep cerebellar nucleus; Cerebellar cortex; Climbing fiber; Purkinje cell; Motor behavior; Behavioral recovery; Inferior olive; 3-Acetylpyridine (Sukin, D.) **426**, 82

L-Glutamate decarboxylase

Immunocytochemistry; Catecholamine; Adrenaline; Brainstem; C₁ area (Milner, T.A.) **411**, 46

Glutamic oxaloacetic transaminase

Isozyme; Glutamate; Immunohistochemistry; Primary sensory neuron; Rat (Inagaki, N.) **402**, 197

Glutaminase

Retina; Quantitative histochemistry; Rat; Guinea pig; Glutamatergic neurotransmission; Metabolism (Ross, C.D.) **401**, 168

Glutamine

Fluoroacetate; Glutamate; Brain slice; Evoked release; Ca²⁺-dependence (Szerb, J.C.) **410**, 116

Hypoxia; Hippocampal slice; CA₁ population spike (Schurr, A.) **412**, 179

Glutamine synthetase

Glutamic acid decarboxylase; Light microscopy; Electron microscopy; γ -Aminobutyric acid (GABA); Area postrema; Immunocytochemistry; Cat (D'Amelio, F.E.) **410**, 232

Brain development; Central nervous system cell culture (Aizenman, Y.) **414**, 301

Glutaraldehyde

DL-5-Hydroxytryptophan; Antibody; Enzyme-linked immunosorbent assay; Raphe nucleus; Immunocytochemistry (Geffard, M.) **426**, 191

Glutathione

Histochemistry; Brain; Mercury orange; Monkey; Rodent (Slivka, A.) **409**, 275

Glycine

Lateral horn cell; Inhibitory transmitter; Spinal cord (Mo, N.) **400**, 139

Lateral inhibition; Tetrodotoxin (TTX) (Barnes, S.) **406**, 233

Cochlear Nucleus; Immunocytochemistry; Double labeling; Retrograde labeling (Wenthold, R.J.) **415**, 183

Sciatic; Saphenous; Denervation; 4-Aminopyridine; γ -Aminobutyric acid (GABA); Spinal cord; Sprouting (Markus, H.) **416**, 315

γ -Aminobutyric acid (GABA); Strychnine; Dorsal cochlear nucleus (Caspary, D.M.) **417**, 273

Cerebellar glomerulus; γ -Aminobutyric acid; Serotonin; Choline; Acetylcholine (Morales, E.) **420**, 11

Reticular formation; Nucleus reticularis gigantocellularis; Spinal cord; Motoneuron; Inhibitory postsynaptic potential (IPSP); Sleep; γ -Aminobutyric acid (Soja, P.J.) **423**, 353

γ -Aminobutyric acid (GABA); GABA receptor; Substantia nigra; Chronic haloperidol; Supersensitivity; Microiontophoresis (Frey, J.M.) **425**, 73

Cerebellum; Electrosensory lateral line lobe; Amino acid; Glutamate; Aspartate; γ -Aminobutyric acid; Taurine (Nadi, S.) **425**, 218

Glycoconjugate

Blood-brain barrier; Lectin; Cerebral endothelium; Cultured cell; Protein blot (Fatehi, M.I.) **415**, 30

Glycodeoxycholate/NaCl

Solubilization; Opioid receptor; Receptor type; Dilution (Maruyama, M.) **401**, 14

Glycogen

Norepinephrine; Adrenergic receptor;

Energy metabolism; Locus coeruleus; Epilepsy (Magistretti, P.J.) **403**, 181

Glucose; Microwave; Brain (Sagar, S.M.) **417**, 172

Glycogen depletion

Frog muscle spindle; Fusimotor innervation; Enhancement of static component; Decay in dynamic component; Small diameter intrafusal muscle fiber (Fujitsuka, N.) **415**, 144

Glycoprotein

Synaptic membrane; Monoclonal antibody (Beesley, P.W.) **408**, 65

Hippocampus; Area dentata; Perforant path; Active avoidance; Post-tetanic long-term potentiation (LTP); Post-conditioning long-term potentiation (LTP); Fucose; Memory formation (Pohle, W.) **410**, 245

Axonal transport; Node of Ranvier; Sciatic nerve; Optic nerve (Armstrong, R.) **412**, 196

Biotin-avidin; Blotting; Brain tumor; Human; Lectin (Davidsson, P.) **412**, 254

Lectin; Olfactory cilia; Chemosensory receptor; Western blotting (Kalinski, D.L.) **418**, 34

Acute-phase response; Rabbit; Fever; Slow-wave sleep (Shoham, S.) **419**, 223

Thy-1; Anti-idiotypic antibody (French, P.W.) **420**, 324

Photoaffinity labeling, β -Adrenergic receptor; Synaptic membrane; Cerebral cortex; Cerebellum; Radioligand binding (Lautens, L.L.) **426**, 401

Glycosylation

Oligodendrocyte; Astrocyte; Neural-cell adhesion molecule (Bhat, S.) **412**, 144

Goat

Intracranial pressure; Vasopressin; Oxytocin; Cerebrospinal fluid vasopressin; Blood pressure (Seckl, J.R.) **423**, 279

Golden hamster

Sex difference; Opiate receptor; *Mesocricetus auratus*; Naloxone; Hypothalamus; Brain differentiation; Sexual dimorphism; [D -Ala², D -Leu⁵]Enkephalin binding; Sexually dimorphic nucleus (Ostrowski, N.L.) **421**, 1

Nociception; Circadian rhythm; Constant light (Pickard, G.E.) **425**, 395

Goldfish

Nerve regeneration; Tetrodotoxin; Axonal transport; Synaptogenesis; Axonal growth; Tubulin; Actin (Antonin, E.) **400**, 403

Axonal transport; Bulk transport; Varicosity; Axon; Retinal culture (Edmonds, B.) **406**, 288

Growth-associated protein; Sensitive period; Activity-dependent sharpening; Axonal regeneration; Axonal transport; Retinotectal pathway (Benowitz, L.I.) **417**, 118

Mauthner cell; Somatosensory input; Startle reflex; Dendritic integration (Chang, Y.T.) **417**, 205

Goldfish optic nerve

Neurite-promoting factor; Conditioned medium; Neuronal cell culture (Finklestein, S.P.) **413**, 267

Golgi method

Primate; Hippocampus; Granule cell; Fetal brain; Neonatal brain (Seress, L.) **405**, 169

Golgi-rapid study

Alzheimer's disease; Senile dementia; Dendrite; Spine density; Dentate gyrus; Granule cell; Morphometry; Human brain (De Ruiter, J.P.) **402**, 217

Gonadal hormone

Imipramine binding; Serotonin uptake; Estradiol; Tricyclic antidepressant; Platelet (Rehavi, M.) **410**, 135

Gonadal steroid

Adenylate cyclase; Cyclic adenosine 3',5'-phosphate (AMP); Castration; Hippocampus (Harrelson, A.) **404**, 89

Opiate; Pregnancy; Lactation; Preoptic area (Hammer Jr., R.P.) **420**, 48

Gonadotropin

Gonadotropin releasing hormone (GnRH); Precursor to GnRH; Immunocytochemistry; Rat; Sheep; Rhesus monkey; Hypothalamus; Protein processing (Silverman, A.-J.) **402**, 346

Gonadotropin-releasing hormone

Precursor to GnRH; Immunocytochemistry; Rat; Sheep; Rhesus monkey; Hypothalamus; Gonadotropin; Protein processing (Silverman, A.-J.) **402**, 346

Amygdala; Interpeduncular nucleus; Immunohistochemistry; Retrograde transport (Jennes, L.) **404**, 339

Transplantation; Olfactory bulb; Hypogonadism; Trophic factor; Terminal sprouting; Graft (Perlow, M.J.) **415**, 158

Graft

Transplantation; Gonadotropin-releasing hormone; Olfactory bulb; Hypogonadism; Trophic factor; Terminal sprouting (Perlow, M.J.) **415**, 158

Graft vessel function

Graft vessel permeability; Blood flow (Tsubaki, S.I.) **424**, 71

Graft vessel permeability

Blood flow; Graft vessel function (Tsubaki, S.I.) **424**, 71

Grafting

Conditioned taste aversion; Fetal neural transplant; Gustatory neocortex; Amygdala (Bermúdez-Rattoni, F.) **416**, 147

Granule cell

Alzheimer's disease; Senile dementia; Dendrite; Spine density; Dentate gyrus; Golgi-rapid study; Morphometry; Human brain (De Ruiter, J.P.) **402**, 217

Primate; Hippocampus; Golgi method; Fetal brain; Neonatal brain (Seress, L.) **405**, 169

Medial septum; Hippocampus; Perforant path; Commissure; Interneuron; Disinhibition (Bilkey, D.K.) **405**, 320

Cytoplasmic Ca²⁺; Hippocampal slice; L-Glutamate; Fura-2 fluorometry (Kudo, Y.) **407**, 168

Cerebellar neuron; Imipramine uptake; Lysosome; Primary culture (Novelli, A.) **411**, 291

Purkinje neuron; Culture; Ethanol; Spontaneous activity; Glutamate response (Franklin, C.L.) **416**, 205

Grayanotoxin

Central depression; Muscle relaxation; Tetrodotoxin; Locomotor activity (Ohgaki, T.) **425**, 364

Grooming

Rat; Hypothalamus; Digging; Circling. Electrical brain stimulation; Discriminant analysis; Mapping (Lammers, J.H.C.M.) **418**, 1

Grooming behavior

Oxytocin; Cholecystokinin; Coexistence (Kaltwasser, M.-T.) **426**, 1

Ground squirrel

Melatonin; Hibernation; Intracerebroventricular (Stanton, T.L.) **413**, 350

Growth

Endogenous opioid; Opioid receptor; Cerebellum; Naltrexone; Methionine-enkephalin; Autoradiography; Cell proliferation (Zagon, I.S.) **412**, 68

Growth factor

Neurite regeneration; Gastropod neuron; Somatostatin; Calcitonin (Grimm-Jørgensen, Y.) **403**, 121

Regeneration; Laminin; Central nervous system; Immunoreactive site (Zak, N.B.) **408**, 263

Growth hormone

Chronic stress; Corticosterone; Thyroid stimulating hormone; Morphine; Endogenous opioid (Armario, A.) **401**, 200

Medial basal hypothalamus; Preoptic/anterior hypothalamic area; Serotonin (Willoughby, J.O.) **404**, 319

Central somatostatin;
Phenoxybenzamine; Picrotoxin;
Naloxone (Murakami, Y.) **407**, 405

Growth hormone-releasing factor (GRF)

Immunohistochemistry; Paraventricular nucleus; Arcuate nucleus; Monoclonal antibody; Rat (Bruhn, T.O.) **424**, 290

Growth hormone-releasing factor neuron

Synapsis; Thyrotropin-releasing hormone terminal; Rat hypothalamus (Shioda, S.) **402**, 355

Growth-associated protein

Sensitive period; Activity-dependent sharpening; Axonal regeneration; Axonal transport; Goldfish; Retinotectal pathway (Benowitz, L.I.) **417**, 118

GTP binding protein

Glutamate receptor; Synapse; Pertussis toxin; Islet activating protein (IAP); Joro spider toxin (JSTX) (Miwa, A.) **416**, 162

Guanethidine

Area postrema; Enkephalin; γ -Aminobutyric acid (GABA); Immunohistochemistry; Neurotensin; Neurotoxin; Rat; Serotonin (Newton, B.W.) **404**, 151

Guanine nucleotide

[3 H]Sulpiride; D₂ Dopamine receptor; Sodium ion; Magnesium ion; Temperature; Ni protein; Ternary complex model (Imafuku, J.) **402**, 331

Guanine nucleotide-binding protein

Synapse; Immunohistochemistry; Retina; Neurotransmission; Rat (Terashima, T.) **410**, 97

Islet-activating protein substrate; Islet of Langerhans; Signal transduction; Immunohistochemistry (Terashima, T.) **417**, 190

Signal transduction (Lad, R.P.) **423**, 237

Guanosine 5'-triphosphate (GTP)

G protein; Guanosine-5'-O-(3-thiotriphosphate) (GTP γ S); Hyperpolarization; Locus coeruleus; Morphine; Pertussis toxin (Wang, Y.-Y.) **436**, 396

Guanosine triphosphate (GTP)-binding protein

Islet-activating protein (pertussis toxin); Retina; Species difference; Immunohistochemistry (Terashima, T.) **436**, 384

Guanosine-5'-O-(3-thiotriphosphate) (GTP γ S)

G protein; Guanosine 5'-triphosphate (GTP); Hyperpolarization; Locus coeruleus; Morphine; Pertussis toxin (Wang, Y.-Y.) **436**, 396

Guidance channel

Axonal regeneration; Nerve transection; Piezoelectric tube (Aebischer, P.) **436**, 165

Guinea pig

Glutaminase; Retina; Quantitative histochemistry; Rat; Glutamatergic neurotransmission; Metabolism (Ross, C.D.) **401**, 168

Substance P; Calcitonin gene-related peptide; Cholecystokinin; Eye; Sensory innervation; Trigeminal ganglion; Cholera toxin B subunit; Retrograde axonal transport; Immunohistochemistry (Kuwayama, Y.) **405**, 220

Enkephalin; Chronic; Nicotine; Catecholamine; Adrenal gland (Hexum, T.D.) **406**, 370

Respiratory rhythm generation; CNS electrophysiology; In vitro preparation; Intracellular recording; Brain perfusion (Richerson, G.B.) **409**, 128

Immunohistochemistry; L-DOPA decarboxylase; L-Histidine decarboxylase; Amacrine cell; Horizontal cell; Histaminergic neuron; Neurotransmitter (Ando-Yamamoto, M.) **410**, 269

Horseradish peroxidase; Otic ganglion; Trigeminal nerve; Salivary gland; Parasympathetic system (Segade, L.A.G.) **411**, 386

Androgen receptor; Guinea pig brain; Pituitary (Bonneau, M.) **413**, 104

γ -Aminobutyric acid (GABA); Aspartate; Immunohistochemistry; Vestibular nuclei (Kumoi, K.) **416**, 22

Met-enkephalin; Lateral olivocochlear system; Noise stimulus; Radioimmunoassay; Cochlea (Eybalin, M.) **418**, 189

Enkephalin; Small intensely fluorescent cell; Superior cervical ganglion; Immunocytochemistry (Matsuyama, T.) **418**, 325

Enkephalin; Morphine; Opioid peptide; Adenylate cyclase; Cochlea; Lateral olivocochlear system (Eybalin, M.) **421**, 336

Posteroventral cochlear nucleus; Lateral superior olive; Auditory system; *Phaseolus vulgaris* leucoagglutinin (PHA-L) (Thompson, A.M.) **421**, 382

Cholecalciferol (28 kDa CaBP); Hippocampal formation; Mossy fiber; Pyramidal cell; Rat; Hedgehog (Rami, A.) **422**, 149

Pineal organ; Spectral sensitivity; Rat; Hamster (Thiele, G.) **424**, 10

Auditory pathway; Brainstem; Immunocytochemistry; Neuropeptide; Sexual dimorphism; Vasopressin

(Dubois-Dauphin, M.) **437**, 151

Guinea pig brain

Androgen receptor; Pituitary; Guinea pig (Bonneau, M.) **413**, 104

Guinea pig ileum

Baclofen; Phaclofen; Cat spinal cord (Kerr, D.I.B.) **405**, 150

Gustation

Lateral hypothalamus; Intrinsic neuron; Ibotenic acid; Saccharin; Quinine; Rat (Ferssiwi, A.) **437**, 142

Gustatory

Nucleus of the solitary tract; Convergence; Anterior tongue; Posterior oral cavity; Hamster; Breadth of responsiveness (Sweazey, R.D.) **408**, 173

Gustatory neocortex

Conditioned taste aversion; Fetal neural transplant; Grafting; Amygdala (Bermúdez-Rattoni, F.) **416**, 147

Gustatory neural impulse

Latency; Frog tongue; Taste stimulus; Fungiform papillae; Receptor potential (Sato, T.) **424**, 333

Gyrus prorseus

Frontal eye field; Precruciate cortex; Presylvian cortex; Prefrontal cortex; Paramedian pontine reticular formation; Oculomotor system; Cat; Horseradish peroxidase (Leichnetz, G.R.) **416**, 195

H

H-7

Synaptic plasticity; Dentate gyrus; Perforant path; Mellitin; Polymyxin B; Protein phosphorylation (Loving, D.M.) **436**, 177

H-reflex

Spinal reflex; Motor unit; Motoneuron; Electromyography; Motor control (Sabbahi, M.A.) **423**, 125

Habenula

Entopeduncular nucleus; Striatum; Horseradish peroxidase; Fluorescent retrograde double labeling; Rat (Takada, M.) **418**, 129

Habituation

Purkinje cell degeneration; Mutant mouse; Spontaneous alternation; Cerebellum (Lalonde, R.) **411**, 187

Hair cell

Neurotransmitter candidate release; Trout saccule; Amino acid; HPLC (Drescher, M.J.) **417**, 39

Calcitonin gene-related peptide;
Lateral line organ; Neurotransmitter;
Efferent nerve (Adams, J.C.) **419**, 347

Hairy skin

Collateral sprouting; Sensory axon;
Dermatome; Spinal nerve lesion;
Wheat germ agglutinin-horseradish
peroxidase conjugate; Anterograde
transport; Microinjection
(Kinnman, E.) **414**, 385

Haloperidol

Lateral habenula; Kainic acid;
Stereotypic behavior; Dopamine;
Behavioral hypersensitivity
(Carvey, P.M.) **409**, 193

Cerebral cortex; Brainstem;
Adrenoceptor; Muscarinic receptor;
GABA_A receptor; Benzodiazepine
receptor (Pazo, J.H.) **414**, 405

Caudate nucleus; Dopamine;
Dopamine receptor; Intracellular
recording; Slice (Akaike, A.) **418**, 262

Unilateral cerebral drug administration;
Amphetamine; Pharmacokinetics;
Interhemispheric relationship
(Hyde, J.F.) **421**, 117

Haloperidol-sensitive non-PCP/ σ -binding site

MK-801; Phencyclidine
(PCP)/ σ -receptor; Anticonvulsant;
[³H]TCP binding; (+)-[³H]SKF 10,047
competition; *N*-Methyl-D-aspartate
(NMDA)-stimulated
[³H]norepinephrine release (Sircar, R.)
435, 235

Halothane

Anesthetic; Motoneuron; Excitatory
postsynaptic potential (EPSP);
Inhibitory postsynaptic potential
(IPSP); Spinal cord (Takenoshita, M.)
402, 303

Halothane anesthesia

Medulla; Respiratory neuron;
Retrofacial nucleus; Böttinger complex
(Grelot, L.) **404**, 335

Hamster

Cholecystokinin; Forebrain;
Hypothalamus; Paraventricular
nucleus; Suprachiasmatic nucleus
(Miceli, M.O.) **402**, 318

Chorda tympani; Lingual nerve;
Denervation; Taste bud; Fungiform
papilla (Whitehead, M.C.) **405**, 192

Anisomycin; Circadian rhythm; Protein
synthesis; Phase response curve;
Oscillator (Takahashi, J.S.) **405**, 199

Nucleus of the solitary tract;
Convergence; Gustatory; Anterior
tongue; Posterior oral cavity; Breadth
of responsiveness (Sweazey, R.D.)
408, 173

Superior colliculus; Tectospinal cell;
Collicular commissure; Predorsal
bundle; Rat (Sahibzada, N.) **415**, 242

Regeneration; Retinal ganglion cell

axon; Peripheral nerve transplant
(Cho, E.Y.P.) **419**, 369

Pineal organ; Spectral sensitivity; Rat;
Guinea pig (Thiele, G.) **424**, 10

Handedness

Biogenic amine; Brain; Operant
conditioning (Schwartz, R.) **417**, 75

Head injury

Spinal cord injury; Kappa agonist;
Ischemia; Neurological recovery
(Hall, E.D.) **435**, 174

Head shaking behavior

5-HT₂ receptor; Serotonin;
Antidepressant drug (Lucki, I.)
420, 403

Head tilt

Vestibular neuron; Otolith; Slow
constant velocity rotation; Clockwise
and counterclockwise direction
(Chan, Y.S.) **406**, 294

Head turn

Electrical stimulation; Circling; Body
curvature; Refractory period;
Summation; Anteromedial cortex;
Medial pons (Tehovnik, E.J.) **407**, 240

Health effect

Analgesia; Morphine; 60-Hz magnetic
field; Mouse; Power line frequency
(Ossenkopp, K.-P.) **418**, 356

Hearing

Stapedius; Motoneuron; Recruitment;
Size-principle; Acoustic-reflex
(Kobler, J.B.) **425**, 372

Heart

Peripheral benzodiazepine binding site;
[³H]PK 11195; Ontogenetic
development; Brain; Lung (Fares, F.)
408, 381

Autoradiography; Hypothalamus;
Central nervous system; Receptor
(Henke, H.) **410**, 404

Colocalization; Neuropeptide Y;
5-Hydroxytryptamine; Intracardiac
neuron; Dopamine β -hydroxylase;
Tissue culture (Hassall, C.J.S.) **422**, 74

Heart rate

γ -Aminobutyric acid; Bicuculline;
3-Mercaptopropionic acid; Muscimol;
Isoniazid; Hypothalamus; Sympathetic
nervous system; Blood pressure
(DiMicco, J.A.) **402**, 1

Stimulation-produced antinociception;
Arterial pressure; Vascular resistance;
Lateral reticular nucleus; Glutamate
microinjection (Janss, A.J.) **405**, 140

Substance P; Nucleus tractus solitarius;
Substance P antagonist; Blood
pressure; Rat (Kubo, T.) **413**, 379

Locus coeruleus; Central nervous
system; Blood pressure; Vasopressin;
Glutamate; 6-Hydroxydopamine
(Sved, A.F.) **414**, 119

Area postrema; Nucleus tractus
solitarius; Blood pressure; Dorsal motor

nucleus of the vagus (Averill, D.B.)
414, 294

Adenosine analog; Fourth ventricle;
Blood pressure; Caffeine
(Barraco, R.A.) **424**, 17

Medial prefrontal cortex; Excitotoxin;
Baroreceptor reflex; Blood pressure;
Rat (Verberne, A.J.M.) **426**, 243

Heart rate response

Chronic cathodal lesion; Noradrenergic
neuron; 6-Hydroxydopamine; Central
transmitter release; Blood pressure
response; Rabbit (Korner, P.I.)
435, 258

Heat production

Spinal cord; Synaptic heat (Tasaki, I.)
407, 386

Heat stress

Superoxide dismutase; Body
temperature range; Thermal loading
(Fishman, R.H.B.) **410**, 343

5-Hydroxytryptamine level;
Blood-brain barrier permeability;
Cerebral blood flow;
p-Chlorophenylalanine; Indomethacin;
Diazepam; Cyproheptadine;
Vinblastine (Sharma, H.S.) **424**, 153

Hedgehog

Cholecalciferol (28 kDa CaBP);
Hippocampal formation; Mossy fiber;
Pyramidal cell; Rat; Guinea pig
(Rami, A.) **422**, 149

Fink-Heimer method

Spinal cord injury; Neurofilament;
Protease inhibitor; Leupeptin; E-64;
Morphometry (Iwasaki, Y.) **406**, 99

Helium-neon laser light

Peripheral nerve; Man (Wu, W.-H.)
401, 407

Helix pomatia

Identified giant neuron; Synaptic input;
Axonal output; Dendritic and axonal
arborizations; Buccal ganglion
(Altrup, U.) **414**, 271

Helix

Slow synaptic current; Potassium
conductance; Neuron modulation;
Bursting cell (Pin, T.) **412**, 165

Helix neuron

Potassium channel; Patch clamping;
Inactivation; Voltage-dependent
channel; Non-inactivating current
(Ram, J.L.) **405**, 16

Hemicholinium-3

Choline; Acetylcholine; Septum;
Cholinergic neuron; Slice culture; High
affinity choline uptake (Keller, F.)
405, 305

Acetylcholinesterase; Receptor
autoradiography; Striatum;
Acetylcholine; Striosome; Rabbit
(Rhodes, K.J.) **412**, 400

Presynaptic receptor; Acetylcholine;
Quantal release; Central synapse

(Poulain, B.) **435**, 63

Hemilabyrinthectomy

Eye movement; Functional recovery; Plasticity (Petrosini, L.) **418**, 398

Hemiparkinsonism

Monkey model; Bar pressing; *N*-Methyl-4-phenyl-2,3,5,6-tetrahydropyridine (MPTP) (Brooks, B.A.) **419**, 329

Hemisection

Lamina X; Serotonin; Enkephalin; Substance P; True blue; Dorsal rhizotomy (Nahin, R.L.) **401**, 292

Hemispherectomy

Central nervous system (CNS) reorganization; Neural plasticity; Sprouting; Age-at-lesion effect; Thalamus; Motor cortex (Villablanca, J.R.) **410**, 219

Hemispheric difference

Synaptic structure; Paleostriatal complex; Passive avoidance; *Gallus domesticus* (Stewart, M.G.) **426**, 69

Hemispheric dominance

Asymmetry; Basal ganglia; Circling; Dopamine; Laterality; Striatum (Bracha, H.S.) **411**, 231

Hemispheric specialization

Attention; Peripheral–central visual field; Event-related brain potential; Motion perception (Neville, H.J.) **405**, 253

Attention; Peripheral–central visual field; Event-related brain potential; Deafness; Motion perception; Development (Neville, H.J.) **405**, 268

Attention; Peripheral–central visual field; Event-related brain potential; Deafness; Motion perception; Development; American sign language (Neville, H.J.) **405**, 284

Hemorrhage

A₁ cell group; Adrenocorticotropin; Catecholaminergic pathway; Ventrolateral medulla; Electrolytic lesion; Vasopressin (Carlson, D.E.) **406**, 385

Somatostatin; Analogue; Vasopressin; Sheep (Wang, X.) **436**, 199

Hemorrhagic shock

Ventrolateral medulla; Catecholamine metabolism; In vivo electrochemistry; Central nervous system cardiovascular control; Controlled hypotension; Clonidine; Rat (Gillon, J.-Y.) **418**, 157

Heparin

Protamine sulfate; Blood–brain barrier; Blood–brain barrier disruption; Polycation; Endothelial surface charge (Strausbaugh, L.J.) **409**, 221

Hermisenda

Monoamine; Serotonin; Catecholamine; Gastropod (Croll, R.P.) **405**, 337

Heroin

Respiratory depression tolerance; Morphine; Etorphine (Roerig, S.C.) **400**, 278

Regional cerebral blood flow; [¹⁴C]Iodoantipyrine; Quantitative autoradiography; Naloxone; Rat (Trusk, T.C.) **406**, 238

Herpes simplex virus (HSV)

Retrograde transneuronal transfer; Herpes simplex virus replication in neurones; Astrocyte; Hypoglossal (XII) motoneuron; XII Premotor interneuron; Inferior olive; Bergmann glial cell (Ugolini, G.) **422**, 242

Herpes simplex virus replication in neurons

Retrograde transneuronal transfer; Herpes simplex virus (HSV); Astrocyte; Hypoglossal (XII) motoneuron; XII Premotor interneuron; Inferior olive; Bergmann glial cell (Ugolini, G.) **422**, 242

Heterogeneity of astroglia

Astroglia; Glial fibrillary acidic protein (GFA-protein); In-situ hybridization; CDNA probe; Immunohistochemistry; Regional difference of GFA-protein (Kitamura, T.) **423**, 189

Heterotopic interhemispheric connection

Striate cortex; Prestriate cortex; Area 19DM; Primate (Spatz, W.B.) **403**, 158

Heterotypic collateral sprouting

Fasciculus retroflexus; Homotypic collateral sprouting; Interpeduncular nucleus; Locus coeruleus; Noradrenaline (Battisti, W.P.) **418**, 287

Hexobarbital

Aldehyde dehydrogenase; Anesthesia; Barbiturate; Disulfiram; Noradrenaline; Serotonin; Sleeping-time (Nilsson, G.E.) **409**, 265

Hexosaminidase

α -Mannosidase; β -Galactosidase; β -Glucuronidase; Acid phosphatase; β -Glucosidase; Pineal; Retina; Lysozyme; Rhythm (Vaughan, M.K.) **417**, 321

Hibernation

Melatonin; Ground squirrel; Intracerebroventricular (Stanton, T.L.) **413**, 350

High-affinity choline uptake

Choline; Acetylcholine; Septum; Cholinergic neuron; Slice culture; Hemicholinium-3 (Keller, F.) **405**, 305

High-affinity site

Nicotine; Chronic treatment; Muscarinic receptor; Cerebral cortex;

Carbamylcholine (Yamanaka, K.) **409**, 395

High-frequency oscillation (HFO)

Phrenic nerve; Power spectra; Respiratory rhythm generator (RRG); Medium frequency oscillation (MFO); Neonatal swine; Development (Cohen, H.L.) **426**, 179

High-performance liquid chromatography

LY171555 (Quinpirole); Metoclopramide; Dopaminergic System Activity; Striatum; Desoxycorticosterone acetate (DOCA)/NaCl-hypertensive rat; In vivo push-pull perfusion (Chen, Y.-F.) **400**, 225

Monoamine; Electrochemical detection; Medial basal hypothalamus; Luteinizing hormone (LH) surge; Estradiol; 4-Hydroxy-3-methoxyphenyl-ethyleneglycol (MHPG) (Osterburg, H.H.) **409**, 31

N-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP); Serotonin; Mouse; Striatum; Immunohistochemistry (Hara, K.) **410**, 371

Tryptophan; Serotonin metabolism; In vivo voltammetry (De Simoni, M.G.) **411**, 89

Optic tract; Lateral geniculate nucleus; Superior colliculus; Retina; Dipeptide; Immunohistochemistry (Anderson, K.J.) **411**, 172

Quinpirole (LY171555); Dopamine D₂ agonist; Presynaptic regulatory mechanism; DOCA/NaCl hypertension; Central dopaminergic activity (Chen, Y.-F.) **413**, 15

Octopamine; Noradrenaline; Locus coeruleus; False transmitter; Radioenzymatic assay (Hicks, T.P.) **421**, 315

Serotonin; Catecholamine; Uric acid; Electrochemical detection; Rat spinal cord (Basbaum, A.I.) **419**, 229

Melanocyte-stimulating hormone; β -Endorphin; Proopiomelanocortin-containing neuron; Dopaminergic agonist; Dopaminergic antagonist; Hypothalamus; Perfusion (Delbende, C.) **423**, 203

Luteinizing hormone-releasing hormone (LH-RH); Pituitary; Bat; Ferret; Human (Anthony, E.L.P.) **424**, 258

Renin; Brain cell culture; Immunocytochemistry; Radioimmunoassay; Normotensive WKY rat; Spontaneously hypertensive (SH) rat (Hermann, K.) **437**, 205

Higher motor center

C₃–C₅ propriospinal neuron; Crossed; Uncrossed; Monosynaptic excitatory postsynaptic potential; Primary afferent (Alstermark, B.) **404**, 382

Hippocampal

Electroencephalography (EEG); State; Theta-on; Theta-off; Cell (Colom, L.V.) **422**, 277

Hippocampal brain slice

Theta; Carbachol; Muscarinic; Electroencephalogram (EEG) (Konopacki, J.) **405**, 196

Hippocampal commissure

Corpus callosum; Allosal brain; Probst's bundle; Callosal development; Anterior commissure; DdN Strain mouse (Ozaki, H.S.) **400**, 239

Hippocampal dentate granule cell

Aging; Serotonin; Afterhyperpolarization (Baskys, A.) **419**, 112

Hippocampal formation

Motor potential; Multiple unit activity (Arezzo, J.C.) **401**, 79

Cholecalciferol (28 kDa CaBP); Mossy fiber; Pyramidal cell; Rat; Guinea pig; Hedgehog (Rami, A.) **422**, 149

Hippocampal lesion

Colchicine; Alzheimer's disease; Choline acetyltransferase activity; T-maze learning; Glutamate receptor (Nakagawa, Y.) **408**, 57

Hippocampal transplant; Differential reinforcement of low response rate (DRL); Operant behavior; Recovery of function (Woodruff, M.L.) **408**, 97

2-Amino-4-phosphonobutyrate; Binding site (Butcher, S.P.) **419**, 294

Hippocampal mossy fiber

Early hyperthyroidism; Developmental plasticity; Kainic acid receptor; Fascia dentata (Represa, A.) **423**, 325

Hippocampal neuron

Cholinergic pathway; Code activation (Colom, L.V.) **410**, 12

4-Aminopyridine; Inhibitory postsynaptic potential (Segal, M.) **414**, 285

Hippocampal pyramid

Theta genesis; Intracellular theta; Slow spike; Spike burst; Lucifer yellow (Núñez, A.) **416**, 289

Hippocampal pyramidal cell

Action potential repolarization; Afterhyperpolarization; Ca-activated K-current; Calcium chelator; 1,2-Bis(*o*-aminophenoxy)-ethane-N,N,N',N'-tetraacetic acid (BAPTA); EGTA (Storm, J.F.) **435**, 387

Hippocampal slice

Synaptic transmission; K⁺ undershoot; Ion transport (Roberts Jr., E.L.) **402**, 178

Epilepsy; Hippocampus; Penicillin; Slow potential (Schneiderman, J.H.) **403**, 162

Spreading depression; Inhibitory postsynaptic potential (IPSP); γ -Aminobutyric acid (GABA); Development; Pyramidal cell; Anoxia (Janigro, D.) **404**, 189

Protein phosphorylation; 4-Aminopyridine; Epilepsy; Ca^{2+} /calmodulin (De Graan, P.N.E.) **404**, 345

Tissue hypoxia; Vasoconstriction; Neural excitability (Topple, A.) **406**, 308

Cytoplasmic Ca^{2+} ; Granule cell; L-Glutamate; Fura-2 fluorometry (Kudo, Y.) **407**, 168

Magnesium; Epilepsy; Burst; N-Methyl-D-aspartate receptor (Schneiderman, J.H.) **410**, 174

Inositol phospholipid; γ -Aminobutyric acid; Norepinephrine; Neurotransmitters' interaction; γ -Aminobutyric acid agonist (Corradetti, R.) **411**, 196

Glutamine; Hypoxia; CA₁ population spike (Schurr, A.) **412**, 179

Cerebral arterial spasm; Thromboxane B₂; Blood serum (Cach, R.) **414**, 1

Cholecystokinin; Benzotript; Proglumide; Antagonist (Jaffe, D.B.) **415**, 197

Postsynaptic potential; Hypothermia; Anoxia; Energy metabolism (Tanimoto, M.) **417**, 239

Anoxia; Potassium ion; Electrophysiology (Sick, T.J.) **418**, 227

2-Amino-4-phosphonobutyrate; 2-Amino-6-phosphonohexanoate-glutamate; Quisqualate; α -Amino-3-hydroxy-5-methyl-4-isoxazolepropionate (AMPA); Excitatory amino acid; Uptake (Harris, E.W.) **418**, 361

Glucose; CA₁ population spike; Hypoxia (Schurr, A.) **421**, 135

Vasospasm; Microvessel; Tetrodotoxin; Neurogenic control (Cach, R.L.) **421**, 370

Arginine vasopressin; Hippocampus; Neuropeptide; Arginine vasopressin receptor; Arginine vasopressin antagonist (Burnard, D.M.) **422**, 11

Electro-convulsive treatment; Long-term potentiation (Anwyll, R.) **435**, 377

Benzodiazepine; CA₁; Withdrawal; Hyperexcitability (Davies, M.F.) **437**, 239

Hippocampal theta wave

Atropine; Electrocardiogram; Phencyclidine; Psychotomimetic opioid;

Serotonin; Sigma receptor (Vanderwolf, C.H.) **414**, 109

Hippocampal transplant

Hippocampal lesion; Differential reinforcement of low response rate (DRL); Operant behavior; Recovery of function (Woodruff, M.L.) **408**, 97

Hippocampal zinc

Mossy fiber; Depletion; Perikaryal accumulation; Colchicine; Rat brain (Szerdahelyi, P.) **422**, 287

Hippocampus

4-Aminopyridine; γ -Aminobutyric acid (GABA); Inhibition (Avoli, M.) **400**, 191

Transplantation; Electroencephalogram; Unit activity; Behavior; θ -Activity (Buzsáki, G.) **400**, 321

Regeneration; Embryonic transplant; θ -Activity; Electroencephalogram; Unit activity; Septum; Locus coeruleus; Behavior (Buzsáki, G.) **400**, 334

Carbamazepine; Anticonvulsant; Epilepsy; Afterdischarge (Smith, K.L.) **400**, 371

Synaptic vesicle; Long-term potentiation; Dendritic spine; Presynaptic; Stereology (Applegate, M.D.) **401**, 401

Commissural–associational system; Rat; Mouse; Cholecystokinin; Immunocytochemistry (Fredens, K.) **401**, 68

Calcineurin; Immunohistochemistry; Zinc; Phosphatase; Calmodulin; Peroxidase antiperoxidase method (Matsui, H.) **402**, 193

Aging; Senile dementia; Alzheimer's disease; Dentate gyrus; Dendrite; Human (Flood, D.G.) **402**, 205

Acetylcholine; Choline acetyltransferase (ChAT); Monoclonal antibody; Immunocytochemistry; Morphometry; Septal lesion; Rat (Matthews, D.A.) **402**, 30

Acute ethanol; Cerebral cortex; Striatum; Calcium channel (Rius, R.A.) **402**, 359

5,6-Dihydroxytryptamine; Methamphetamine; Neurotoxicity; Serotonin; Psychomotor stimulant (Commings, D.L.) **403**, 7

Anoxic damage; Anesthetic; Thiopental; Isoflurane; Brain slice; Anoxia (Bendo, A.A.) **403**, 136

Epilepsy; Hippocampal slice; Penicillin; Slow potential (Schneiderman, J.H.) **403**, 162

Protein kinase C; Phorbol ester; Transmitter release; Glutamate; Calcium (Malenka, R.C.) **403**, 198

In situ; Push–pull zinc; Mossy fiber

- (Aniksztejn, L.) **404**, 58
- Adenylate cyclase; Cyclic adenosine 3',5'-phosphate (AMP); Gonadal steroid; Castration (Harrelson, A.) **404**, 89
- Dithiothreitol; Epileptiform activity; Sulfhydryl reagent; Radioprotectant (Tolliver, J.M.) **404**, 133
- Memory; Amygdala; Timing; Temporal memory (Olton, D.S.) **404**, 180
- Adenosine antagonist; Adenosine agonist; Cerebellum; Glutamate; Transmitter release; Excitatory postsynaptic potential (EPSP) (Prestwich, S.A.) **405**, 130
- Primate; Granule cell; Golgi method; Fetal brain; Neonatal brain (Seress, L.) **405**, 169
- Medial septum; Perforant path; Commissure; Granule cell; Interneuron; Disinhibition (Bilkey, D.K.) **405**, 320
- Cholecystokinin (CCK); Cholecystokinin (CCK) antagonist; Neuropeptide (MacVicar, B.A.) **406**, 130
- Estradiol; Arcuate nucleus; Hypothalamus; Globus pallidus; Astrocyte; Glial fibrillary acidic protein; Immunohistochemistry (Tranque, P.A.) **406**, 348
- Amphetamine; Long-term treatment; Evoked response; Long-term potentiation (Morimoto, K.) **407**, 137
- Calcium-activated potassium conductance; Neuroleptic; Intracellular recording (Dinan, T.G.) **407**, 159
- Aging; Basal forebrain; Cholinergic system; Receptor (Springer, J.E.) **407**, 180
- Spinal cord; Glucocorticoid receptor; RNAase A; Corticosterone; Dexamethasone; DNA-cellulose binding (Moses, D.F.) **408**, 118
- Colchicine; Dentate gyrus; Neurobehavior (Tilson, H.A.) **408**, 163
- Dye-coupling; Ca^{2+} -loading; Fluorescein isothiocyanate (FITC) dextran (Rao, G.) **408**, 267
- Kindling; Low-frequency stimulation; Epileptogenic focus (Minabe, Y.) **408**, 286
- Dentate gyrus; Sequential dependencies; Single unit recording (Foster, T.C.) **408**, 86
- Aging; Senile dementia; Alzheimer's disease; CA_{2-3} ; Dendrite; Human (Flood, D.G.) **409**, 88
- Anterior cingulate cortex; Posterior cingulate cortex; Learning and memory; Unit activity; Lesion (Gabriel, M.) **409**, 151
- Memory; Medial temporal lobe; Single unit; Recognition; Monkey (Brown, M.W.) **409**, 158
- Septum; γ -Aminobutyric acid; Biotinylated wheat germ agglutinin; Immunocytochemistry (Shinoda, K.) **409**, 181
- Electrical stimulation; Spatial memory; Naloxone (Collier, T.J.) **409**, 316
- Ethanol; Stratum oriens; Long-sleep mouse; Short-sleep mouse; Dendritic spine (Scheetz, A.J.) **409**, 329
- Ca^{2+} current; Ca^{2+} spike; Inactivation; Conductance; Voltage-clamp; Vertebrate central nervous system (Pitler, T.A.) **410**, 147
- Area dentata; Perforant path; Active avoidance; Post-tetanic long-term potentiation (LTP); Post-conditioning long-term potentiation (LTP); Glycoprotein; Fucose; Memory formation (Pohle, W.) **410**, 245
- Serotonin; G protein; Population spike; Adenylate cyclase; Pertussis toxin (Clarke, W.P.) **410**, 357
- N*-Methylaspartate; Amino acid; Purine catabolite; Excitotoxic lesion (Lehmann, A.) **411**, 95
- Non-pyramidal cell; Fast spiking cell; GABAergic neuron; Dentate gyrus; Slice preparation; Intracellular injection of HRP (Kawaguchi, Y.) **411**, 190
- Serotonin; Regeneration; Supersensitivity; Fimbria; Fornix (Lombardi, G.) **411**, 275
- Dihydropyridine; Frontal cerebral cortex; Spontaneously hypertensive rat (SHR); Senescence; PN 200-110 (Huguet, F.) **412**, 125
- Columnar organization; CA_1 pyramidal neuron; Subiculum; Axonal arborization; Horseradish peroxidase (HRP); Computer analysis (Tamamaki, N.) **412**, 156
- Epilepsy; Kindling; Dentate gyrus; Recurrent inhibition; Long-term potentiation (De Jonge, M.) **412**, 318
- Opioid binding; Kindling; Autoradiography; Mu opioid peptide; Delta opioid peptide (Crain, B.J.) **412**, 343
- Neuronal transmission; Trisynaptic circuit; θ Rhythm; Evoked potential (Herreras, O.) **413**, 75
- Medial septum; Theta rhythm; Rhythmic unit; Neuron pair; Cross-correlation (Alonso, A.) **413**, 135
- AF64A; Cholinergic neurotoxin; Learning and memory; Working memory; Acetylcholine (Chrobak, J.J.) **414**, 15
- Ethyl alcohol; Intracellular recording; Transmembrane property; Synaptic potential; Electrophysiology (Siggins, G.R.) **414**, 22
- Ganglioside; Sprouting; Behavioral recovery; Entorhinal cortex; Learned alternation (Ramirez, J.J.) **414**, 85
- Autoradiography; Adenosine receptor; Cerebral ischemia; Muscarinic receptor; Septal nucleus; Striatum (Onodera, H.) **415**, 309
- Adenosine; Phenylisopropyladenosine; Theophylline; Electrophysiology (Brodie, M.S.) **415**, 323
- Opioid; Development; Cerebellum; Cerebral cortex; Dentate gyrus (Hauser, K.F.) **416**, 157
- Ischemia; [^3H]2-Deoxyglucose; Light microscope radioautography; Electron microscope radioautography; Rapid freezing technique (Izumiyama, K.) **416**, 175
- Fast spiking cell; Calcium-binding protein; Parvalbumin; γ -Aminobutyric acid (GABA)ergic neuron; Non-pyramidal cell; Intracellular injection of Lucifer yellow; Immunohistochemistry (Kawaguchi, Y.) **416**, 369
- Brain slice; Carbachol; θ -Rhythm; Phase shifting (Konopacki, J.) **417**, 399
- Epilepsy; Gerbil; Lesion; Perforant path; Fornix (Ribak, C.E.) **418**, 146
- Mast cell-degranulating peptide (MCD); Behavior; Electroencephalography; Binding; Central nervous system; Seizure; Theta rhythm (Bidard, J.-N.) **418**, 235
- Long-term potentiation; Interneuron (Taube, J.S.) **419**, 32
- Mammalian brain; Primate brain; α_1 -Adrenoceptor; Autoradiography; Olfactory bulb (Palacios, J.M.) **419**, 65
- γ -Aminobutyric acid (GABA); Glutamic acid decarboxylase (GAD); Ca^{2+} binding protein; Parvalbumin; Local circuit neuron; Dentate gyrus; Immunohistochemistry (Kosaka, T.) **419**, 119
- Kindling; Afterdischarge; Entorhinal cortex; Cholinergic input; Paroxysmal fast wave; Medial septum; Scopolamine (Leung, L.-W.S.) **419**, 173
- Microtubule-associated protein; Tau; Denervation; Immunocytochemistry; Electrophoresis (Busciglio, J.) **419**, 244
- 5,6-Dihydroxytryptamine; Para-chloroamphetamine; Serotonin; Neurotoxicity; Somatosensory cortex; Striatum (Commings, D.L.) **419**, 253
- Acetylcholine release; Brain slice; Calcium; Frequency modulation (Pohorecki, R.) **420**, 199
- Ethylcholine aziridinium ion (AF64A); Acetylcholine; Noradrenaline;

Dopamine; Alzheimer's disease (Hörtlagl, H.) **421**, 75

Arginine vasopressin; Hippocampal slice; Neuropeptide; Arginine vasopressin receptor; Arginine vasopressin antagonist (Burnard, D.M.) **422**, 11

Ibotenic acid; Septum; Active sleep; Quiet sleep; Rhythmical slow activity; Cholinergic neuron; Electroencephalogram (Stewart, D.J.) **423**, 101

Electroconvulsive shock; Deoxyglucose; Seizure; Glucose utilization (Orzi, F.) **423**, 144

Ibotenic acid; Septum; Rhythmical slow activity; Cholinergic neuron; Urethane; Septohippocampal system; Serotonin (Stewart, D.J.) **423**, 88

2-Deoxyglucose; Autoradiography; Cerebral cortex; Thalamus; Piracetam; Scopalamine; Rat (Piercey, M.F.) **424**, 1

Acetylcholine; Choline acetyltransferase; Acetylcholinesterase; Stress; Hypothalamus (Fatranská, M.) **424**, 109

Complex-spike cell; θ -Neuron; Pyramidal cell; Interneuron; Noradrenaline; α -Receptor; β -Receptor (Pang, K.) **425**, 146

Sleep; Long-term synaptic enhancement; Long-term potentiation (LTP); Behavioral state; Field potential; Learning; Memory (Leonard, B.J.) **425**, 174

Learning; Radial-maze; Mossy fiber; Mouse (Crusio, W.E.) **425**, 182

Dentate gyrus; Subiculum; Fast-spiking cell; Non-pyramidal cell (Kawaguchi, Y.) **425**, 351

Theophylline; Caffeine; Kainic acid; Metrazol; Adenosine receptor; Epilepsy (Ault, B.) **426**, 93

Substance P; Substance K; Tachykinin; Neuropeptide; Limbic system (Shults, C.W.) **426**, 290

Bay K8644; Nicardipine; Dihydropyridine; Spontaneously hypertensive rat; Acetylcholine (Brisac, A.-M.) **435**, 160

Rhythmic slow-wave activity; Theta rhythm; Diazepam; Acetylcholine; Locomotion (Caudarella, M.) **435**, 202

Anticonvulsant; Inhibitory postsynaptic potential; Valproate (Preisendörfer, U.) **435**, 213

Long-term potentiation; Theta rhythm; Chronic recording (Staubli, U.) **435**, 227

Dentate gyrus; Recurrent collateral inhibition; SKF-100330A; SKF-89976A; γ -Aminobutyric acid (GABA);

γ -Aminobutyric acid (GABA) uptake blocker; γ -Aminobutyric acid (GABA)-mediated inhibition; Facilitation (Albertson, T.E.) **435**, 283

Long-term potentiation; Sharp wave; Population burst; Memory; Model (Buzsáki, G.) **435**, 331

Perforant path; Opioid peptide; Amino acid; Wet dog shake; Enkephalin; Dynorphin; γ -Aminobutyric acid (GABA) (Mitchell, C.L.) **435**, 343

Excitotoxin; Quinolinic acid; Brain lesion; Gliosis; Neurodegenerative disorder (Speciale, C.) **436**, 18

Aldosterone; Corticosterone; Hypothalamus; Receptor; Mineralocorticoid; Glucocorticoid (Yongue, B.G.) **436**, 49

Asymmetry; Apodemes; Subiculum; Timm's stain (Slomianka, L.) **436**, 69

Brain; Transected slice; Carbachol; Theta (θ); Two-generator hypothesis (Konopacki, J.) **436**, 217

Glucose utilization; Autoradiography; 2-Deoxyglucose; Serotonin; 5-HT_{1A} receptor; Ipsapirone; Rat (Wree, A.) **436**, 283

Cerebral cortex; Noradrenergic innervation; 6-Hydroxydopamine; Antidepressant drug; Learned helplessness; Escape failure; Rat (Soubrie, P.) **437**, 323

Hippocampus, dorsal

Passive avoidance behavior; Anti-vasopressin serum; Noradrenaline utilization; Hippocampus, ventral; Septum, dorsolateral; Caudate nucleus (Veldhuis, H.D.) **425**, 167

Hippocampus, ventral

Passive avoidance behavior; Anti-vasopressin serum; Noradrenaline utilization; Hippocampus, dorsal; Septum, dorsolateral; Caudate nucleus (Veldhuis, H.D.) **425**, 167

Hirano body

200-KDa Neurofilament; Long-term CNS transplant; Peripheral nerve; Cytoskeletal abnormality (Doering, L.C.) **401**, 178

Tau protein; Alzheimer's disease; Cytoskeleton; Neurofibrillary tangle; Paired helical filament; Immunocytochemistry (Galloway, P.G.) **403**, 337

Hirudo medicinalis

Pathway selection; Axonal regeneration; Surface glycoprotein (Peinado, A.) **410**, 330

Histamine

Immunocytochemistry; Median eminence; Luteinizing hormone-releasing hormone (LH-RH) (Berkenbosch, F.) **405**, 353

Neuroanatomical tracing; *Phaseolus*

vulgaris-leucoagglutinin (PHA-L); Double-label immunocytochemistry; Histidine decarboxylase; Prefrontal cortex; Hypothalamus; Limbic system (Wouterlood, F.G.) **406**, 330

Histaminergic innervation

Histidine decarboxylase-like immunoreactivity; Mesencephalic nucleus of the trigeminal nerve; Light microscopy; Electron microscopy; Immunocytochemistry; Rat (Inagaki, N.) **418**, 388

Histaminergic neuron

Immunohistochemistry; L-DOPA decarboxylase; L-Histidine decarboxylase; Amacrine cell; Horizontal cell; Neurotransmitter; Guinea pig (Ando-Yamamoto, M.) **410**, 269

Histidine decarboxylase

Neuroanatomical tracing; *Phaseolus vulgaris*-leucoagglutinin (PHA-L); Double-label immunocytochemistry; Histamine; Prefrontal cortex; Hypothalamus; Limbic system (Wouterlood, F.G.) **406**, 330

Histidine decarboxylase-like immunoreactivity

Histaminergic innervation; Mesencephalic nucleus of the trigeminal nerve; Light microscopy; Electron microscopy; Immunocytochemistry; Rat (Inagaki, N.) **418**, 388

L-Histidine decarboxylase

Immunohistochemistry; L-DOPA decarboxylase; Amacrine cell; Horizontal cell; Histaminergic neuron; Neurotransmitter; Guinea pig (Ando-Yamamoto, M.) **410**, 269

Histochemistry

Acetylcholine; Acetylcholinesterase; Butyrylcholinesterase; Electron microscope; Human retina (Hutchins, J.B.) **400**, 300

Glutathione; Brain; Mercury orange; Monkey; Rodent (Slivka, A.) **409**, 275

Arylsulfatase C; Estrone-sulfate sulfatase; Pineal gland; Choroid plexus; Hypophysis; Median eminence (Kawano, J.-I.) **409**, 391

Acetylcholine; Cholinesterase; Huntington's disease; Striatum (Ferrante, R.J.) **411**, 162

Acetylcholinesterase; Chicken; Immunohistochemistry; Retina; Ultrastructure (Millar, T.J.) **421**, 297

Histofluorescence method

Catecholamine; Cell body; Diencephalon; Distribution; Fetus (Su, H.-S.) **409**, 367

Histologic measurement

Endoneurial microvessel; Fixation; Vasomotor tone; Ultrastructure; Endothelial cell; Basement membrane (Schenone, A.E.) **402**, 151

Histology

Pineal body; Human; Aging;
Calcification; Cyst; Hypertension
(Hasegawa, A.) **409**, 343

Homeostasis

Peripheral nerve; Blood–nerve barrier;
Calcium; Regulation; Blood vessel;
Neuropathy; Hypercalcemia;
Hypocalcemia; Endoneurium;
Magnesium; Ion (Rechthand, E.)
406, 185

Homocysteate

Neurotoxicity; Cytotoxicity;
Homocysteic acid; Cortical neuron;
Cell culture; *N*-Methyl-D-aspartate
(NMDA); Excitatory amino acid;
Glutamate (Kim, J.P.) **437**, 103

Homocysteic acid

Neurotoxicity; Cytotoxicity;
Homocysteate; Cortical neuron; Cell
culture; *N*-Methyl-D-aspartate
(NMDA); Excitatory amino acid;
Glutamate (Kim, J.P.) **437**, 103

DL-Homocysteic acid

Urinary bladder; Parabrachial nucleus;
Electrical stimulation (Lumb, B.M.)
435, 363

Homograft

Astrocyte; Implantation; Spinal cord
injury; Immunohistochemistry
(Connor, J.R.) **409**, 62

Homotypic collateral sprouting

Fasciculus retroflexus; Heterotypic
collateral sprouting; Interpeduncular
nucleus; Locus coeruleus;
Noradrenaline (Battisti, W.P.) **418**, 287

Homovanillic acid

Alzheimer's disease; Neocortex;
Serotonin; 5-Hydroxyindoleacetic acid;
Noradrenaline;
3-Methoxy-4-hydroxyphenylglycol;
Dopamine; Dihydroxyphenylacetic
acid; Choline acetyltransferase
(Palmer, A.M.) **401**, 231

p-Tyramine; *M*-Tyramine; *p*-Tyrosine;
Dopamine; 3,4-Dihydroxyphenylacetic
acid; Mesolimbic system; Pargyline
(Sardar, A.) **412**, 370

1-Methyl-4-phenyl-1,2,3,6-
tetrahydropyridine (MPTP);
Parkinson's disease; African Green
monkey; Ventral tegmental area;
Mesolimbic; Nigrostriatal;
Cerebrospinal fluid; Dopamine;
3-Methoxy-4-hydroxyphenylglycol
(MHPG) (Elsworth, J.D.) **415**, 293

Honey bee

Circling behavior; γ -Aminobutyric acid;
Acetylcholine; Muscimol; Picrotoxin;
Flaxedil; Nicotine; Lesion
(Michelsen, D.B.) **421**, 14

Horizontal cell

Immunohistochemistry; L-DOPA
decarboxylase; L-Histidine
decarboxylase; Amacrine cell;
Histaminergic neuron;

Neurotransmitter; Guinea pig
(Ando-Yamamoto, M.) **410**, 269

Retina; Receptive field; Ganglion cell;
Surround excitability; Rabbit
(Mangel, S.C.) **414**, 182

Horizontal diagonal band

Magnocellular basal nucleus; Cortical
projection; *Phaseolus vulgaris*
leucoagglutinin; Anterograde tracing
(Luiten, P.G.M.) **413**, 229

Hormone

Photoperiod; Seasonal cycle; Brain
size; Body mass; Sex difference
(Dark, J.) **409**, 302

Age; Retina; Stress; Photoreceptor
(O'Steen, W.K.) **426**, 37

Hormone transport into CSF

Anesthesia; CSF hormone; Arginine
vasopressin (AVP); Angiotensin II (A
II); Cerebrospinal fluid (CSF);
Conscious animal
(Simon-Oppermann, C.) **424**, 163

Horseradish peroxidase

Expiratory neuron; Nucleus
retroambigualis; Intracellular
recording; Postsynaptic potential; Axon
collateral; Antidromic stimulation
(Arita, H.) **401**, 258

Locus coeruleus; Vestibular complex;
Vestibular nucleus; Deiters' nucleus;
Brainstem (Fung, S.J.) **401**, 347

Ventral pallidum; Mediodorsal nucleus
of the thalamus; Substantia innominata;
Motor control; Electrophysiology
(Mogenson, G.J.) **404**, 221

Striatum; Olfactory tubercle; Pallidum;
Mediodorsal nucleus; Degeneration;
Electron microscopy (Zahm, D.S.)
404, 327

Paramedian reticular nucleus; Spinal
cord; Fluorescent dye; Axonal
branching; Cardiovascular regulation;
Intermediolateral nucleus
(Elisevich, K.) **408**, 227

Choline acetyltransferase;
Immunohistochemistry; Basal
forebrain; Thalamus (Steriade, M.)
408, 372

Nucleus of the optic tract; Inferior
olive; γ -Aminobutyric acid;
Tetramethylbenzidine; Monkey; Cat;
Rat (Horn, A.K.E.) **409**, 133

Cortex; Red nucleus; Inclined plane;
Clip injury; Rat (Midha, R.) **410**, 299

Cranial motoneuron; Localization;
Amphibian muscle; Prey-catching
behavior; Toad (Takei, K.) **410**, 395

Olfactory bulb; Olfactory epithelium
(Stewart, W.B.) **411**, 248

Otic ganglion; Trigeminal nerve;
Salivary gland; Parasympathetic
system; Guinea pig (Segade, L.A.G.)
411, 386

Choline acetyltransferase;
Immunocytochemistry; Lateral dorsal
tegmental nucleus; Basal ganglion
(Beninato, M.) **412**, 169

Intralaminar thalamus; Somatosensory
system; Axonal transport;
Spinothalamic tract (Ma, W.) **414**, 187

Nerve graft; Axonal elongation;
Thalamocortical connection;
Somatosensory pathway; Tracing
technique (Cossu, M.) **415**, 399

Frontal eye field; Precruciate cortex;
Presylvian cortex; Gyrus prorseus;
Prefrontal cortex; Paramedian pontine
reticular formation; Oculomotor
system; Cat (Leichnetz, G.R.) **416**, 195

Superior colliculus; Auditory input; Bat
(Zhang, S.) **416**, 375

Trigeminal motor nucleus; Differences
between motoneurons (Yoshida, A.)
416, 393

Visual cortex; Visual topography;
Striate area; Extrastriate area; Callosal
connection; Microelectrode mapping;
Rat (Thomas, H.C.) **417**, 214

Ventral tegmental area; Occipital
cortex; Forebrain; Substantia nigra pars
compacta; Neuroanatomical
differentiation; Retrograde double
labeling; Rat (Takada, M.) **418**, 27

Crossed nigrostriatal projection;
Crossed mesostriatal projection;
Ventral tegmental decussation;
Substantia nigra; 6-Hydroxydopamine
(Douglas, R.) **418**, 111

Entopeduncular nucleus; Striatum;
Habenula; Fluorescent retrograde
double labeling; Rat (Takada, M.)
418, 129

Capsaicin; Primary sensory afferent;
Urinary bladder; Spinal cord; Selective
degeneration (Jancsó, G.) **418**, 371

Immunohistochemistry;
Thyrotropin-releasing hormone;
Intracellular staining; Spinal cord;
Motoneuron (Ulfhake, B.) **419**, 387

Spinal trigeminal nucleus, pars
interpolaris; Anterograde labeling;
Axon terminal in XII nucleus;
Retrograde labeling; Hypoglossal
motoneuron (Borke, R.C.) **422**, 235

Paramedian pontine reticular
formation; Brainstem afferent; Cat;
Oculomotor system; Eye movement
(Leichnetz, G.R.) **422**, 389

Area octavolateralis; In vitro; Lateral
lemniscus; Lateral line; Urodele
amphibian (Gonzalez, A.) **423**, 338

Olfaction; Topography; Nasal cavity;
Bulbar glomerulus (Astic, L.) **424**, 144

Barrier; Spinal cord; Transection
(Noble, L.J.) **424**, 177

Thymus; Afferent nerve fiber; Nodose

ganglion (Magni, F.) **424**, 379

Embryonic graft; Neostriatum;
Transplantation; Connectivity; Rat
(Walker, P.D.) **425**, 34

Retina; Kainic acid; Ganglion cell;
Optic tectum; Trophic factor;
Development (Tung, N.N.) **435**, 153

Vagus; Glossopharyngeal; Accessory
nerve; Elasmobranch; Nucleus
ambiguous (Barry, M.A.) **425**, 159

Trigeminal sensory nucleus;
Internuclear connection
(Nasution, I.D.) **425**, 234

Motoneuron; Fast twitch muscle fiber;
Slow twitch muscle fiber; Tibialis
anterior muscle; Soleus muscle;
Ageing; Rat (Ishihara, A.) **435**, 355

Wheat germ agglutinin; Anterograde
degeneration; Electron microscopy;
Substantia nigra; Superior colliculus;
Spinal cord; Cat (Tokuno, H.) **436**, 76

Horseradish peroxidase (HRP)

Striatum; Putamen; Caudate nucleus;
Spinal trigeminal nucleus; Nociception;
Wheat germ agglutinin-horseradish
peroxidase (WGA-HRP); Cat
(Yasui, Y.) **408**, 334

Columnar organization; Hippocampus;
CA₁ pyramidal neuron; Subiculum;
Axonal arborization; Computer
analysis (Tamamaki, N.) **412**, 156

Horseradish peroxidase (HRP) labeling

Wing mutant; Neural projection;
Neurogenetics (Inestrosa, N.C.)
416, 248

Horseradish peroxidase histochemistry

Terminal nerve; Teleost; Luteinizing
hormone releasing hormone
immunocytochemistry (Grober, M.S.)
436, 148

Horseradish peroxidase staining

Descending fiber; Motoneuron
connexion; Unitary excitatory
postsynaptic potential; Quantal analysis
(Babalian, A.L.) **407**, 394

Hot plate test

Noradrenaline; 6-Hydroxydopamine;
Medullary A₁ lesion; Dorsal bundle
lesion; Locus coeruleus lesion;
Morphine analgesia; Tail flick test;
Pressure test (Sawynok, J.) **419**, 156

House mouse

Spinal nucleus of the bulbocavernosus;
Genotype; Castration; Motoneuron;
Strain difference; Androgen
(Wee, B.E.F.) **424**, 305

HPLC

Neurotransmitter candidate release;
Hair cell; Trout sacculus; Amino acid
(Drescher, M.J.) **417**, 39

HPLC/EC

Dopamine; Microdialysis; Interval

feeding; Striatum; Behavior
(Church, W.H.) **412**, 397

5-HT-1c receptor

Serotonin receptor; Phosphoinositide
hydrolysis; Choroid plexus;
Serotonergic denervation;
Cerebrospinal fluid (Conn, P.J.)
400, 396

5-HT-2 receptor

Iminodipropionitrile; ECC-syndrome;
¹²⁵I-LSD binding site; Frontal cortex;
Striatum; Nucleus accumbens;
Autoradiography (Cadet, J.L.)
437, 383

5-HT₁

Serotonin; Cortical neuron;
Intracellular; 5-HT₂; Depolarization;
Hyperpolarization (Davies, M.F.)
423, 347

5-HT_{1a} agonist

Serotonin; Lateral septum; In vitro
intracellular recording (Joëls, M.)
417, 99

5-HT_{1A} receptor

Glucose utilization; Autoradiography;
2-Deoxyglucose; Serotonin; Ipsapirone;
Hippocampus; Rat (Wree, A.) **436**, 283

5-HT₂

Serotonin; Cortical neuron;
Intracellular; 5-HT₁; Depolarization;
Hyperpolarization (Davies, M.F.)
423, 347

5-HT₂ receptor

Head shaking behavior; Serotonin;
Antidepressant drug (Lucki, I.)
420, 403

Human

Aging; Senile dementia; Alzheimer's
disease; Dentate gyrus; Dendrite;
Hippocampus (Flood, D.G.) **402**, 205

Substance P; Brainstem; Adult;
Immunocytochemistry (Nomura, H.)
404, 365

Pattern; Load perturbation; Reflex;
Synergy (McIlroy, W.E.) **407**, 317

Aging; Senile dementia; Alzheimer's
disease; CA₂₋₃; Dendrite;
Hippocampus (Flood, D.G.) **409**, 88

Pineal body; Aging; Histology;
Calcification; Cyst; Hypertension
(Hasegawa, A.) **409**, 343

[³H]Flunitrazepam; Benzodiazepine
receptor subtype; Cerebellar cortex
(Faull, R.L.M.) **411**, 379

Biotin-avidin; Blotting; Brain tumor;
Glycoprotein; Lectin (Davidsson, P.)
412, 254

Calcitonin gene-related peptide;
Substance P; Somatostatin; Sensory
neuron; Skin; Immunofluorescence
(Gibbins, I.L.) **414**, 143

Neurofilament; Neocortex; Entorhinal
cortex; Subiculum; Dementia;

Neurofibrillary tangle (Morrison, J.H.)
416, 331

Luteinizing hormone-releasing
hormone (LH-RH); Pituitary; Bat;
Ferret; High performance liquid
chromatography (HPLC)
(Anthony, E.L.P.) **424**, 258

Synapse; Aging; Plasticity; Cerebral
cortex (Adams, I.) **424**, 343

Odor; Mixture suppression;
Psychophysics; 2-Deoxyglucose;
Olfactory epithelium; Odor polarity;
Rat (Bell, G.A.) **426**, 8

γ -Aminobutyric acid (GABA) uptake;
Synaptosome; Frontal cortex
(Sidhu, H.S.) **435**, 334

Human brain

Alzheimer's disease; Senile dementia;
Dendrite; Spine density; Dentate gyrus;
Granule cell; Golgi-rapid study;
Morphometry (De Ruiter, J.P.)
402, 217

Alzheimer's disease; Multiple opioid
receptor; Radioreceptor assay
(Hiller, J.M.) **406**, 17

Somatostatin receptor; Subpopulation;
Cortex; Somatostatin-28; SMS 201-995
(Reubi, J.C.) **406**, 391

Kinsmen Substance P;
Acetylcholinesterase; Nucleus basalis of
Meynert; Immunohistochemistry;
Alzheimer's disease (Beach, T.G.)
408, 251

Substance P; Tachykinin; Messenger
RNA; Striatum (Chesselet, M.-F.)
410, 83

Met-enkephalin; Leu-enkephalin;
Substance P; Cholecystokinin;
Dopamine; Postmortem; Progressive
supranuclear palsy (Taquet, H.)
411, 178

Opioid receptor; Selective ligand;
 δ -Enkephalin analogue; Discriminative
binding property; Parkinson's disease
(Delay-Goyet, P.) **414**, 8

Alzheimer's disease; Neocortex;
Catecholamine; Dopamine;
Noradrenaline; Acetylcholine
(Palmer, A.M.) **414**, 365

Opiate receptor; Autoradiography
(Cross, A.J.) **418**, 343

Angiotensin II binding; Lamina
terminalis; Receptor; Diencephalon
(McKinley, M.J.) **420**, 375

[³H]Imipramine binding; Protease
sensitivity; Sodium dependency;
5-Hydroxytryptamine; Desipramine
(Bäckström, I.T.) **425**, 128

[³H]Imipramine binding;
Proteinaceous; 5-Hydroxytryptamine;
Desipramine; Aging; Dementia
(Marcusson, J.O.) **425**, 137

Anterograde degeneration; Cholesterol

ester crystal; Degenerated myelin; Polarizing microscopy; Macrophage; Tract tracing (Miklossy, J.) **426**, 377

Human cerebellum

Monoclonal antibody; Benzodiazepine receptor; Endogenous benzodiazepine; Benzodiazepine (De Blas, A.L.) **413**, 275

Corticotropin-releasing factor; Inferior olive; Peptide (Powers, R.E.) **415**, 347

Human cortex

Serotonin receptor subtype (Todd, R.D.) **400**, 247

Human corticospinal tract

Percutaneous stimulation; Individual motor unit response; Corticospinal tract jitter; Spinal monosynaptic transmission (Zidar, J.) **422**, 196

Human forearm

Stretch reflex; Long-latency reflex; Ischemic nerve block (Hayashi, R.) **403**, 341

Human hippocampus

Glutamate decarboxylase; Immunocytochemistry; Basket cell; Electron microscopy (Schlander, M.) **401**, 185

Human infant

Neurotensin; Immunocytochemistry; Thalamus; Subthalamus; Hypothalamus (Sakamoto, N.) **403**, 31

Human retina

Acetylcholine; Acetylcholinesterase; Butyrylcholinesterase; Electron microscope; Histochemistry (Hutchins, J.B.) **400**, 300

Human sensory ganglion

Oxytocin (Vecsernyés, M.) **414**, 153

Huntington's disease

Isoniazid; Pyridoxine; Cerebrospinal fluid amino acid; Cerebrospinal fluid γ -aminobutyric acid (Manyam, B.V.) **408**, 125

Acetylcholine; Cholinesterase; Histochemistry; Striatum (Ferrante, R.J.) **411**, 162

Acetylcholinesterase; Basal ganglion; Catecholamine; Dopamine; Immunohistochemistry (Ferrante, R.J.) **416**, 141

Ethanolamine; Phosphoethanolamine; Alzheimer's disease; Cerebral cortex; Striatum (Ellison, D.W.) **417**, 389

Corticotropin-releasing hormone; Somatostatin; Basal ganglia; Postmortem human brain; Radioimmunoassay (De Souza, E.B.) **437**, 355

Hydrogen ion

Perivascular microapplication; Potassium ion; Bradykinin; Adenosine; DC potential (Wahl, M.) **411**, 72

Hydroxindole-O-methyltransferase

Mouse; Pineal; Melatonin; N-Acetyltransferase; Serotonin;

N-Acetylserotonin (Ebihara, S.) **416**, 136

3 α -Hydroxy-5 α -pregnan-20-one (3A5P)

Analgesia; Steroid; Opiate; Calcium channel antagonist; Benzodiazepine (Kavaliers, M.) **415**, 393

4-Hydroxy-3-methoxyphenyl-ethyleneglycol (MHPG)

Monoamine; High-performance liquid chromatography (HPLC); Electrochemical detection; Medial basal hypothalamus; Luteinizing hormone (LH) surge; Estradiol (Osterburg, H.H.) **409**, 31

5-Hydroxyindole

Voltammetry; Spinal cord; Morphine; Probenecid; Nucleus raphe magnus (Chiang, C.-Y.) **411**, 259

Spinal cord; Voltammetry; Electrochemistry; Uric acid (Rivot, J.P.) **419**, 201

5-Hydroxyindole-3-acetaldehyde

Aldehyde dehydrogenase inhibitor; Diethyldithiocarbamate; Disulfiram; Indole-3-acetaldehyde; Tryptophan hydroxylase (Nilsson, G.E.) **409**, 374

5-Hydroxyindoleacetic acid

Alzheimer's disease; Neocortex; Serotonin; Noradrenaline; 3-Methoxy-4-hydroxyphenylglycol; Dopamine; Dihydroxyphenylacetic acid; Homovanillic acid; Choline acetyltransferase (Palmer, A.M.) **401**, 231

5-Hydroxyindoleacetic acid (5-HIAA)

p-Chlorophenylalanine (PCPA); Serotonin (5-HT); Catecholamine turnover; Noradrenaline; Dopamine; Estrogen; Luteinizing hormone (LH) surge (Burri, R.) **416**, 267

5-Hydroxytryptamine

Choline acetyltransferase; Nucleus basalis; Somatostatin; Noradrenaline; Neocortex; Excitotoxin; Alzheimer's disease (Fine, A.) **406**, 326

Coexistence; Retrograde fiber tracing; Glutamic acid decarboxylase; Bulbospinal projection; Raphe complex; Rat (Millhorn, D.E.) **410**, 179

Temperature; Vagal afferent; Rat; Sucrose gap (Pike, G.K.) **413**, 388

p-Chlorophenylalanine (PCPA); 5-Hydroxyindoleacetic acid (5-HIAA); Catecholamine turnover; Noradrenaline; Dopamine; Estrogen; Luteinizing hormone (LH) surge (Burri, R.) **416**, 267

5,7-Dihydroxytryptamine (5,7-DHT); Receptor; Hypothalamus; Regeneration; Plasticity (Frankfurt, M.) **419**, 216

Colocalization; Neuropeptide Y;

Intracardiac neuron; Dopamine β -hydroxylase; Heart; Tissue culture (Hassall, C.J.S.) **422**, 74

[³H]Imipramine binding; Protease sensitivity; Sodium dependency; Desipramine; Human brain (Bäckström, I.T.) **425**, 128

[³H]Imipramine binding; Proteinaceous; Desipramine; Human brain; Aging; Dementia (Marcusson, J.O.) **425**, 137

5,7-Dihydroxytryptamine; In vivo labeling; 5-Hydroxytryptamine neuron; *Aplysia* (Jahan-Parwar, B.) **426**, 173

5-Hydroxytryptamine level

Heat stress; Blood-brain barrier permeability; Cerebral blood flow; *p*-Chlorophenylalanine; Indomethacin; Diazepam; Cyproheptadine; Vinblastine (Sharma, H.S.) **424**, 153

5-Hydroxytryptamine neuron

5-Hydroxytryptamine; 5,7-Dihydroxytryptamine; In vivo labeling; *Aplysia* (Jahan-Parwar, B.) **426**, 173

5-Hydroxytryptamine synthesis

Dopamine synthesis; Fluoxetine; Neurointermediate lobe; Pituitary gland; Platelets; Tryptophan (Shannon, N.J.) **402**, 287

5,7-Dihydroxytryptamine; Dorsomedial nucleus of the hypothalamus; Electrical stimulation; Intermediate lobe; Neural lobe; Pituitary gland; Raphe nuclei (Shannon, N.J.) **416**, 322

DL-5-Hydroxytryptophan

Glutaraldehyde; Antibody; Enzyme-linked immunosorbent assay; Raphe nucleus; Immunocytochemistry (Geffard, M.) **426**, 191

6-Hydroxydopamine

Desmethylinipramine; Plasticity; Monocular deprivation (Allen, E.E.) **401**, 397

Dopamine; Noradrenaline; Catecholamine; Amine accumulation; Neurochemical specificity (Willis, G.L.) **403**, 15

Substance P; Trigeminal ganglion; Forebrain cerebral vessel; Pia arachnoid; Capsaicin; Superior cervical ganglion (Saito, K.) **403**, 66

Norepinephrine; Anteroventral third cerebral ventricle (AV3V); Catecholamine; Dopamine; Angiotensin II; Drinking; Blood pressure (Bellin, S.I.) **403**, 105

Posteromedial barrel subfield; Somatosensory cortex; Development (Loeb, E.P.) **403**, 113

Substantia nigra pars reticulata; Nigrostriatal lesion; Dopamine; D₁-receptor; D₂-receptor; Single unit recording (Weick, B.G.) **405**, 234

Kindling antagonism; Norepinephrine; Neonate; Brainstem-cerebellum hyperinnervation (Applegate, C.D.) **407**, 212

Nucleus accumbens; Rat (Choulli, K.) **407**, 376

Dopamine receptor; D₁ receptor, SCH-23390; Ibotenic acid; Substantia nigra; Autoradiography (Filloux, F.M.) **408**, 205

A₁ neuron; Anodal and cathodal lesion; Clonidine; Methyldopa; Rabbit (Head, G.A.) **412**, 18

Locus coeruleus; Central nervous system; Blood pressure; Heart rate; Vasopressin; Glutamate (Sved, A.F.) **414**, 119

Dopamine; Transplant; Limb use; Paw use; Rotation (Dunnett, S.B.) **415**, 63

Crossed nigrostriatal projection; Crossed mesostriatal projection; Ventral tegmental decussation; Substantia nigra; Horseradish peroxidase (Douglas, R.) **418**, 111

Noradrenaline; Medullary A₁ lesion; Dorsal bundle lesion; Locus coeruleus lesion; Morphine analgesia; Tail flick test; Hot plate test; Pressure test (Sawynok, J.) **419**, 156

Dorsal noradrenergic bundle; Noradrenaline; α_2 -Adrenoceptor; β_1 -Adrenoceptor; Neocortex; Rat (Dooley, D.J.) **420**, 152

Enkephalin; Dopamine; Chicken retina; Opiate receptor (Su, Y.Y.T.) **423**, 63

α -Kainic acid; γ -D-Glutamylaminomethylsulphonic acid; Substantia nigra; Caudate-putamen; Muscle tone; Catalepsy; Turning; Electromyogram; Ibotenic acid (Turski, L.) **424**, 37

Rotation; Amphetamine; Dopamine; Serotonin; Striatum; Lateralization (Shapiro, R.M.) **426**, 323

Chronic cathodal lesion; Noradrenergic neuron; Central transmitter release; Blood pressure response; Heart rate response; Rabbit (Korner, P.I.) **435**, 258

Neutral endopeptidase; Opioid receptor; Caudate putamen; Globus pallidus; Substantia nigra; Kainic acid; Colchicine (Waksman, G.) **436**, 205

Hippocampus; Cerebral cortex; Noradrenergic innervation; Antidepressant drug; Learned helplessness; Escape failure; Rat (Soubrie, P.) **437**, 323

6-Hydroxydopamine (6-OHDA)

Lateral reticular nucleus; Locus coeruleus/subcoeruleus; Stimulation-produced antinociception; Descending inhibition; Norepinephrine depletion; Supersensitivity; α_2 -Adrenoceptor up-regulation

(Janss, A.J.) **400**, 40

6-Hydroxydopamine lesion

Nucleus accumbens; Opioid receptor; Hypersensitivity; Rat (Esposito, E.) **436**, 25

8-Hydroxy-2-(di-*n*-propylamine)-tetralin (8-OH-DPAT)

Serotonin; Receptor subtype; RU 24969; Mesulergine (Huang, J.C.) **436**, 173

Hyperactivity

3(2-Carboxypiperazin-4-yl)-propyl-1-phosphonic acid (CPP); Frontal cortex; Locomotion; *N*-Methyl-D-aspartate (O'Neill, K.A.) **435**, 371

Hyperalgesia

Injury; Neurogenic inflammation; Spinal hyperactivity; C-Fiber afferent; Sympathetic efferent; Autotomy; Contralateral foot-withdrawal (Coderre, T.J.) **404**, 95

β -Endorphin; Morphiceptin; Tyr-MIF-1; Neonate (Zadina, J.E.) **409**, 10

Arthritic rat; Morphine; Analgesia (Kayser, V.) **414**, 155

Capsaicin; Nociception; Chronic pain (Simone, D.A.) **418**, 201

Nociception; Bradykinin; Leukotriene B₂; Norepinephrine; Prostaglandin E₂ (Taiwo, Y.O.) **423**, 333

Hyperbilirubinemia

Bilirubin encephalopathy; Rat; Behavior; Open-field; Blood-brain barrier; Free bilirubin; Exploration (Hansen, T.W.R.) **424**, 26

Hypercalcemia

Peripheral nerve; Blood-nerve barrier; Calcium; Regulation; Homeostasis; Blood vessel; Neuropathy; Hypocalcemia; Endoneurium; Magnesium; Ion (Rechthand, E.) **406**, 185

Hypercapnia

Hypertension; CO₂ reactivity; Vascular reactivity; Hypocapnia; Freeze substitution (Yoshida, F.) **412**, 1

Hyperexcitability

Benzodiazepine; Hippocampal slice; CA₁; Withdrawal (Davies, M.F.) **437**, 239

Hyperglycemia

Focal ischemia; Infarction; Middle cerebral artery; Lactacidosis; Rat (Nedergaard, M.) **408**, 79

Vanadate; Vanadyl; Insulin; Glucose transport; Central nervous system; Autonomic nervous system; Mouse (Amir, S.) **419**, 392

Hyperinnervation

Mutant mouse; Adrenergic receptor; Locus coeruleus (Levitt, P.) **418**, 174

Hyperosmotic agent

Ischemia; Edema; Diuresis; U-50488H (Silvia, R.C.) **403**, 52

Hyperphagia

Monosodium glutamate; Bipiperidyl mustard; Cholecystokinin; Ventromedial hypothalamus; Paraventricular nucleus; Insulin; Feeding; Obesity (Scallet, A.C.) **407**, 390

Rat; Ventromedial hypothalamic nucleus; Ibotenic acid; Food intake; Body weight; Obesity (Shimizu, N.) **416**, 153

Transplant; Neural graft; Obesity; Ventromedial hypothalamus; Lesion; Feeding; Consummatory behavior (Mickley, G.A.) **424**, 239

Hyperpolarization

Atrial natriuretic polypeptide; Atriopeptin; Glioma cell; Membrane potential (Reiser, G.) **402**, 164

Serotonin; Cortical neuron; Intracellular; 5-HT₁; 5-HT₂; Depolarization (Davies, M.F.) **423**, 347

G protein; Guanosine 5'-triphosphate (GTP); Guanosine-5'-O-(3-thiotriphosphate) (GTP γ S); Locus coeruleus; Morphine; Pertussis toxin (Wang, Y.-Y.) **436**, 396

Hyperprolactinemia

Tyrosine-hydroxylase; Dopamine; Norepinephrine; Prolactin; Pituitary tumor; Ectopic pituitary (Fernandez-Ruiz, J.J.) **421**, 65

Hypersensitivity

Nucleus accumbens; 6-Hydroxydopamine lesion; Opioid receptor; Rat (Esposito, E.) **436**, 25

Hyperstriatum

Somatosensory; Neostriatum; Thalamus; Wheatgerm agglutinin-horseradish peroxidase; Avian (Wild, J.M.) **412**, 205

Hypertension

Kidney; Renal nerve; Adrenergic receptor; Neurotransmitter (Sripanidkulchai, B.) **400**, 91

γ -Aminobutyric acid (GABA); Blood pressure; Nucleus tractus solitarius; Vasopressin; Neurotransmitter; Muscimol (Catelli, J.M.) **403**, 279

Central amygdaloid nucleus; Renal function; Conscious rats; Environmental stress; α - and β -Adrenoceptors (Koepke, J.P.) **404**, 80

Pineal body; Human; Aging; Histology; Calcification; Cyst (Hasegawa, A.) **409**, 343

CO₂ reactivity; Vascular reactivity; Hypercapnia; Hypocapnia; Freeze substitution (Yoshida, F.) **412**, 1

Sympathetic nerve; Superior cervical

ganglion; Bilateral innervation; Spontaneously hypertensive rat; Thalamus; Autoregulation (Sadoshima, S.) **413**, 297

Hyperthermia

Microwave; Glial fibrillary acidic protein; Brain damage; Response to injury; Rat (Miller, D.B.) **415**, 371

Pre-pontine knife cut; Brown adipose tissue; Cardiac output distribution; Thermoregulation; Non-shivering thermogenesis (Shibata, M.) **436**, 273

Hypertrophy of neurons

Cholinergic nucleus; Rat forebrain; Immunohistochemistry (Pearson, R.C.A.) **411**, 332

Hypocalcemia

Peripheral nerve; Blood-nerve barrier; Calcium; Regulation; Homeostasis; Blood vessel; Neuropathy; Hypercalcemia; Endoneurium; Magnesium; Ion (Rechthand, E.) **406**, 185

Hypocapnia

Hypertension; CO₂ reactivity; Vascular reactivity; Hypercapnia; Freeze substitution (Yoshida, F.) **412**, 1

Hypoglossal

Phrenic; Recurrent laryngeal; Respiratory rhythm; Oscillation; Spectral analysis; Pulmonary afferent; Carbon dioxide (Cohen, M.I.) **417**, 148

Hypoglossal (XII) motoneuron

Retrograde transneuronal transfer; Herpes simplex virus (HSV); Herpes simplex virus replication in neurones; Astrocyte; XII Premotor interneuron; Inferior olive; Bergmann glial cell (Ugolini, G.) **422**, 242

Hypoglossal motoneuron

Spinal trigeminal nucleus, pars interpolaris; Horseradish peroxidase; Anterograde labeling; Axon terminal in XII nucleus; Retrograde labeling (Borke, R.C.) **422**, 235

Membrane potential dependence; Postsynaptic potential; Cerebral cortex; Lingual nerve; Inferior alveolar nerve; Cat (Takata, M.) **426**, 358

Hypoglycemia

Blood glucose; Insulin; Locus coeruleus; Noradrenergic neuron; Stress (Morilak, D.A.) **422**, 32

Hypogonadal mouse

Brain graft; Preoptic area; Luteinizing hormone; Reflex ovulation; Persistent estrus (Gibson, M.J.) **424**, 133

Hypogonadism

Transplantation; Gonadotropin-releasing hormone; Olfactory bulb; Trophic factor; Terminal sprouting; Graft (Perlow, M.J.) **415**, 158

Hypophysectomy

Amygdala; Kindled epilepsy; Learning;

Nucleus parafascicularis; Adrenocorticotrophic hormone (Rogers III, O.L.) **403**, 96

Opioid analgesia; Dexamethasone; β -Endorphin; Pregnancy (Baron, S.A.) **418**, 138

Prolactin; Brain; Anterior Pituitary; Radioimmunoassay; Bioassay; Gel filtration chromatography; Restraint stress (Emanuele, N.V.) **421**, 255

Neurosecretory neuron; Regeneration; Median eminence; Immunohistochemistry; Vasopressin; Oxytocin; Postnatal development (Kawamoto, K.) **422**, 106

Hypophysis

Arylsulfatase C; Estrone-sulfate sulfatase; Pineal gland; Choroid plexus; Median eminence; Histochemistry (Kawano, J.-I.) **409**, 391

Neurotensin; Hypothalamus; Electrical stimulation (Eckland, D.J.A.) **421**, 161

Hypothalamic lesion

Neurotensin; Immunohistochemistry; Median eminence; Arcuate nucleus (Kiss, A.) **416**, 129

Hypothalamic stimulation; Ovulation; Ovarian atrophy; Female sexual behavior (Robison, B.L.) **418**, 41

Hypothalamic nucleus

Atrial natriuretic peptide; Atriopeptin; Atrial natriuretic peptide receptor; Quantitative autoradiography; Circumventricular organ (Kurihara, M.) **408**, 31

Streptozotocin diabetes; Monoamine metabolism (Bitar, M.S.) **409**, 236

Hypothalamic slice

Suprachiasmatic nucleus; Retinohypothalamic tract; Excitatory amino acid; Kynurenate; Acetylcholine (Cahill, G.M.) **410**, 125

Hypothalamic stimulation

Hypothalamic lesion; Ovulation; Ovarian atrophy; Female sexual behavior (Robison, B.L.) **418**, 41

Hypothalamic ventromedial nucleus

Norepinephrine; Adrenergic receptor; Adrenergic agonist and antagonist; Estrogen; Brain slice (Kow, L.-M.) **413**, 220

Hypothalamic-preoptic neuron

Thermosensitivity; Waking-sleeping cycle (Parmeggiani, P.L.) **415**, 79

Hypothalamus

Immunohistochemistry; Medial preoptic area; Preoptic region; Sexual dimorphism (Simerly, R.B.) **400**, 11

Angiotensin II; Receptor autoradiography; Subfornical organ; Salt gland; Receptor up-regulation; Pekin duck (Gerstberger, R.) **400**, 165

γ -Aminobutyric acid; Bicuculline; 3-Mercaptopropionic acid; Muscimol;

Isoniazid; Sympathetic nervous system; Heart rate; Blood pressure (DiMicco, J.A.) **402**, 1

Cholecystokinin; Forebrain; Hamster; Paraventricular nucleus; Suprachiasmatic nucleus (Miceli, M.O.) **402**, 318

Cholera toxin; Retrograde tracer; Nucleus raphe pallidus; Peptide; Cat (Luppi, P.-H.) **402**, 339

Gonadotropin releasing hormone (GnRH); Precursor to GnRH; Immunocytochemistry; Rat; Sheep; Rhesus monkey; Gonadotropin; Protein processing (Silverman, A.-J.) **402**, 346

Neurotensin; Immunocytochemistry; Human infant; Thalamus; Subthalamus (Sakamoto, N.) **403**, 31

Supraoptic nucleus; γ -Aminobutyric acid (GABA); Brain slice; Neurosecretion; Baclofen (Ogata, N.) **403**, 225

Estrogen receptor; Norepinephrine; Noradrenergic system; Prazosin; Progesterin receptor; Catecholamine (Blaustein, J.D.) **404**, 39

Estrogen receptor; Norepinephrine; Noradrenergic system; Yohimbine; Phenylephrine; Clonidine; Catecholamine; α_2 -Noradrenergic receptor (Blaustein, J.D.) **404**, 51

Olfactory bulbectomy; Androgen receptor binding; Amygdala; Copulation (Lumia, A.R.) **404**, 121

Brain stimulation-induced aggression; Lactation; Maternal aggression; Female; Pregnancy; Wound pattern (Mos, J.) **404**, 263

Relaxin; Oxytocin; Reflex milk-ejection; Cerebroventricular system; Rat (O'Byrne, K.T.) **405**, 80

Preoptic area projection; Subthalamic locomotor region (Swanson, L.W.) **405**, 108

Corticotropin-releasing hormone (CRF); Adrenocorticotrophic hormone (ACTH); Reserpine; Catecholamine (Suda, T.) **405**, 247

Neuroanatomical tracing; *Phaseolus vulgaris*-leucoagglutinin (PHA-L); Double-label immunocytochemistry; Histamine; Histidine decarboxylase; Prefrontal cortex; Limbic system (Wouterlood, F.G.) **406**, 330

Estradiol; Hippocampus; Arcuate nucleus; Globus pallidus; Astrocyte; Glial fibrillary acidic protein; Immunohistochemistry (Tranque, P.A.) **406**, 348

α -Bungarotoxin; Suprachiasmatic nucleus; Circadian rhythm; Receptor autoradiography; Light-dark cycle; Acetylcholine (Fuchs, J.L.) **407**, 9

Ontogenesis;
Peptide-histidine-isoleucine
(PHI)-containing neuron;
Suprachiasmatic nucleus (Ishikawa, K.)
407, 144

Prolactin; Subcellular distribution;
Synaptosome; Acetylcholinesterase
(Emanuele, N.V.) **407**, 223

Peptide; Coexistence;
Immunohistochemistry; Medullary
raphe nucleus; Spinal cord
(Holets, V.R.) **408**, 141

Cross-correlation; Raphe; Reticular
formation; Short time scale interaction;
Spike-triggered averaging; Sympathetic
nerve discharge (Gebber, G.L.)
410, 106

Autoradiography; Central nervous
system; Heart; Receptor (Henke, H.)
410, 404

Calcium gluconate; Arginine
vasopressin; Vasopressinergic neuron;
Catecholamine; Blood pressure
(Benetos, A.) **412**, 182

Melanocyte-stimulating hormone;
Perfusion; Radioimmunoassay; Ion
(Jégou, S.) **413**, 259

Choline acetyltransferase;
Immunohistochemistry; Tuber
cinereum; Primate; Rat (Tago, H.)
415, 49

Medial preoptic nucleus; Sexual
dimorphism; Sexual differentiation;
Testosterone; Quail (Panzica, G.C.)
416, 59

Enkephalin; Evolution; Frog;
Immunocytochemistry; Optic tectum;
Peptide; Toad (Merchenthaler, I.)
416, 219

Neuropeptide Y; Paraventricular
nucleus; Adrenocorticotrophic hormone
(ACTH); Corticosterone;
Desamido-NPY (Wahlestedt, C.)
417, 33

Rat; Grooming; Digging; Circling;
Electrical brain stimulation;
Discriminant analysis; Mapping
(Lammers, J.H.C.M.) **418**, 1

Cholecystokinin release; Satiety;
Primate; Push-pull perfusion
(Schick, R.R.) **418**, 20

5,7-Dihydroxytryptamine (5,7-DHT);
Serotonin (5-HT); Receptor;
Regeneration; Plasticity
(Frankfurt, M.) **419**, 216

Suprachiasmatic nucleus; Unit activity;
Arousal state (Glottzbach, S.F.)
419, 279

γ -Aminobutyric acid; Defense reaction;
Approach; Avoid; Aversive drive;
Bicuculline; Muscimol (Shekhar, A.)
420, 118

Thyroxine; Triiodothyronine; Thyroid
hormone; Deiodinase; Median

eminence (Riskind, P.N.) **420**, 194

Posterior pituitary; Prolactin;
Serotonin; Ether (Murai, I.) **420**, 227

Deoxycorticosterone-salt hypertension;
Midbrain; Knife cut (Cannata, M.A.)
420, 295

Sex difference; Opiate receptor;
Golden hamster; *Mesocricetus auratus*;
Naloxone; Brain differentiation; Sexual
dimorphism;
[D-Ala², D-Leu⁵]Enkephalin binding;
Sexually dimorphic nucleus
(Ostrowski, N.L.) **421**, 1

Neurotensin; Hypophysis; Electrical
stimulation (Eckland, D.J.A.) **421**, 161

Serotonin uptake; Serotonin release;
Monoamine oxidase activity; Aging;
Monoamine balance (Navarro, H.A.)
421, 291

Gastrin; Ventromedial nucleus; Lateral
hypothalamus; Brain; Microinfusion;
Gastric secretion; Caudate-putamen
(Gunion, M.W.) **422**, 118

Testosterone; Aromatase;
5 α -Reductase; 5 β -Reductase; Limbic
system; Quail (Schumacher, M.)
422, 137

Nicotinic site; Corticotropin releasing
factor (CRF); Neurophysin
(Sharp, B.M.) **422**, 361

Melanocyte-stimulating hormone;
 β -Endorphin;
Proopiomelanocortin-containing
neuron; Dopaminergic agonist;
Dopaminergic antagonist;
High-performance liquid
chromatography; Perfusion
(Delbende, C.) **423**, 203

Norepinephrine; Lamina terminalis;
Median preoptic nucleus; Vasopressin;
Supraoptic nucleus; Fluid balance;
 α -Methyl tyrosine (Wilkin, L.D.)
423, 369

Norepinephrine release; Brain slice;
Electrical stimulation; Desipramine;
Tyrosine; Rat (Irie, K.) **423**, 391

Acetylcholine; Choline
acetyltransferase; Acetylcholinesterase;
Stress; Hippocampus (Fatranská, M.)
424, 109

Substance P; Enkephalin; Coexistence;
Rat (Shimada, S.) **425**, 256

Stria terminalis; Action potential;
Amygdala; Convergence (Dalsass, M.)
425, 346

Orchidectomy; Testosterone;
Catecholamine; Serotonin; Cerebral
cortex; Spinal cord (Battaner, E.)
425, 391

Estradiol; Arcuate nucleus; Plasma
membrane; Neuronal membrane;
Synapse; Freeze-fracture;
Sex-difference (Olmos, G.) **425**, 57

5,7-Dihydroxytryptamine; Estrogen
receptor; Lordosis; Progesterin receptor;
Serotonin (Luine, V.N.) **426**, 47

Autoradiography; Melatonin receptor;
¹²⁵I-Melatonin; Suprachiasmatic
nucleus; Median eminence
(Vaněček, J.) **435**, 359

Aldosterone; Corticosterone;
Hippocampus; Receptor;
Mineralocorticoid; Glucocorticoid
(Yongue, B.G.) **436**, 49

Estrogen receptor; Catecholamine;
Noradrenaline; Noradrenergic system;
Yohimbine; Pituitary gland;
 α_2 -Noradrenergic receptor
(Blaustein, J.D.) **436**, 253

Baroreceptor area; Adrenocorticotrophic
hormone (ACTH); β -Endorphin;
 α -Melanocyte-stimulating hormone
(α -MSH); Brainstem lesion; Nucleus of
the solitary tract (Palkovits, M.)
436, 323

Pregnanolone; Luteinizing
hormone-releasing hormone (LH-RH);
Superfusion; Push-pull perfusion; Rat
(Park, O.-K.) **437**, 245

Adrenalectomy; Corticotropin-releasing
factor; Paraventricular nucleus;
Vasopressin (Sawchenko, P.E.)
437, 253

Thiamin; Thiamin deficiency; Ouabain;
(Na⁺, K⁺)-ATPase; Cerebellum
(Matsuda, T.) **437**, 375

Hypothermia

Neurotensin; Neuropeptide;
 β -Endorphin; Ethanol; Anesthesia;
Selectively bred mouse (Erwin, V.G.)
400, 80

Nicotine; Dopamine metabolism;
Substantia nigra lesion; Reverse
tolerance; Caudate nucleus; Nucleus
accumbens; Stereotypy (Lapin, E.P.)
407, 351

Hippocampal slice; Postsynaptic
potential; Anoxia; Energy metabolism
(Tanimoto, M.) **417**, 239

Thermoregulation; Cyclo(His-Pro);
Dopamine (Prasad, C.) **437**, 345

Hypothyroidism

Non-phosphorylated neurofilament;
Phosphorylated neurofilament;
Purkinje cell basket (Bignami, A.)
409, 143

Hypovolemia

Footshock; Osmotic stimulation; Rat;
Synergism; Vasopressin (Shibuki, K.)
410, 140

Hypoxia

Glutamate release; Veratridine- and
potassium-induced release; Calcium
dependence of release; Tetrodotoxin;
Anoxia; Rat; Development of release
(Minc-Golomb, D.) **402**, 255

Memory retention; Forskolin; Cyclic

adenosine monophosphate (cAMP) (Ando, S.) **405**, 371

Carbon monoxide; Monoamine metabolite (MacMillan, V.) **408**, 40

Carotid body; Light transmittance; Cyanide (Acker, H.) **409**, 380

Glutamine; Hippocampal slice; CA₁ population spike (Schurr, A.) **412**, 179

Rat brain cortex; Recovery; Brain eicosanoid; Carbohydrate metabolite (Petroni, A.) **415**, 226

Glucose; Hippocampal slice; Ca₁ population spike (Schurr, A.) **421**, 135

Anoxia; Cell culture; Astrocyte; Neuron-specific enolase; Glutamate; γ -D-Glutamylglycine (Vibulsreth, S.) **422**, 303

Experimental Neuropathy; *p*-Bromophenylacetylurea; Slow axonal transport; Nerve conduction velocity; Ischemic conduction failure (Nagata, H.) **422**, 319

60-Hz magnetic field

Analgesia; Morphine; Mouse; Power line frequency; Health effect (Ossenkopp, K.-P.) **418**, 356

I
I_(K,Ca)
Leech; Patch-clamp (Yang, J.) **419**, 324

Ibotenate

Brain lesion; Glutamate; Noradrenaline; Inositol phospholipid hydrolysis (Nicoletti, F.) **436**, 103

Ibotenic acid

Dopamine receptor; D₁ receptor; SCH-23390; 6-Hydroxydopamine; Substantia nigra; Autoradiography (Filloux, F.M.) **408**, 205

Rat; Ventromedial hypothalamic nucleus; Food intake; Hyperphagia; Body weight; Obesity (Shimizu, N.) **416**, 153

Septum; Hippocampus; Rhythmical slow activity; Cholinergic neuron; Urethane; Septohippocampal system; Serotonin (Stewart, D.J.) **423**, 88

Hippocampus; Septum; Active sleep; Quiet sleep; Rhythmical slow activity; Cholinergic neuron; Electroencephalogram (Stewart, D.J.) **423**, 101

α -Kainic acid;
 γ -D-Glutamylaminomethylsulphonic

acid; Substantia nigra;
Caudate-putamen; Muscle tone;
Cataplexy; Turning; Electromyogram;
6-Hydroxydopamine (Turski, L.) **424**, 37

Gustation; Lateral hypothalamus;
Intrinsic neuron; Saccharin; Quinine;
Rat (Ferssiwi, A.) **437**, 142

ICI 154,129

Opioid analgesia; Non-opioid analgesia; Stress; Naloxone;
 β -Funaltrexamine (B-FNA); Snail; Evolution (Kavaliers, M.) **410**, 111

Activity; Stress-induced analgesia; Immobilization; Opioid analgesia; Naloxone; Deer mice; *Peromyscus maniculatus*; Sex; Genetic; Island–Mainland population (Kavaliers, M.) **425**, 49

ICI 174,864

Place conditioning; δ -Receptor; Opioid; Reinforcement; [D-Pen², D-Pen⁵]-Enkephalin (DPDPE); Morphine (Shippenberg, T.S.) **436**, 234

ICI 174864 enkephalin

Alcohol-narcosis; Thyrotropin-releasing hormone; Neurotensin (Widdowson, P.S.) **424**, 281

Idazoxan

α_2 -Adrenergic receptor; Clonidine; Pressor area; Spontaneously hypertensive rat; Ventrolateral medulla; Wistar–Kyoto rat (Punnen, S.) **422**, 336

Adrenaline release; Noradrenaline release; Intracerebral dialysis; Phenylethanolamine-*N*-methyltransferase (PNMT) inhibitor; Monoamine oxidase (MAO) inhibitor; *N*-(2-Chloroethyl)-*N*-ethyl-2-bromobenzyllamine (DSP₄) (Routledge, C.) **426**, 103

[³H]Idazoxan

α_1 -Adrenoceptor; α_2 -Adrenoceptor; β -Adrenoceptor; Distribution; [³H]Prazosin; [³H]Dihydroalprenolol; Catecholamine (Diop, L.) **402**, 403

Identified giant neuron

Synaptic input; Axonal output; Dendritic and axonal arborizations; Buccal ganglion; *Helix pomatia* (Altrup, U.) **414**, 271

Image analysis

Serotonin; Raphe nucleus; Dorsal spinal cord; Ventral spinal cord (Carlton, S.M.) **426**, 310

Iminodipropionitrile

ECC-syndrome; ¹²⁵I-LSD binding site; 5-HT-2 receptor; Frontal cortex; Striatum; Nucleus accumbens; Autoradiography (Cadet, J.L.) **437**, 383

Imipramine binding

Serotonin uptake; Estradiol; Tricyclic antidepressant; Gonadal hormone; Platelet (Rehavi, M.) **410**, 135

Imipramine uptake

Cerebellar neuron; Granule cell; Lysosome; Primary culture (Novelli, A.) **411**, 291

[³H]Imipramine binding

Protease sensitivity; Sodium dependency; 5-Hydroxytryptamine; Desipramine; Human brain (Bäckström, I.T.) **425**, 128

Proteinaceous; 5-Hydroxytryptamine; Desipramine; Human brain; Aging; Dementia (Marcusson, J.O.) **425**, 137

Immobilization

Analgesia; Calcium channel antagonist; Phe-Met-Arg-Phe-NH₂ (FMRFamide); Morphine; Stress; Stress-induced analgesia; Naloxone; Opioid analgesia (Kavaliers, M.) **415**, 380

Activity; Stress-induced analgesia; Opioid analgesia; Naloxone; ICI 154, 129; Deer mice; *Peromyscus maniculatus*; Sex; Genetic; Island–Mainland population (Kavaliers, M.) **425**, 49

Immune response

Phorbol diester
12-*O*-tetradecanoyl-phorbol-13-acetate; Protein kinase C; Astrocyte; Arachidonic acid metabolism; Prostaglandin E; Inflammation (Hartung, H.-P.) **417**, 347

Immune–nervous system interaction

Immunoglobulin; Neuroendocrine cell; Supraoptic nucleus; Paraventricular nucleus; Lysosome (Meeker, M.L.) **423**, 45

Immunoblot analysis

Synaptic vesicle; Monoclonal antibody; Immunohistochemistry; Specific protein (Obata, K.) **404**, 169

Immunocytochemical staining

Choline acetyltransferase; Cholinergic neuron; Starburst amacrine cell; Retina; Rabbit (Famiglietti, E.V.) **413**, 398

Immunocytochemistry

Leu-enkephalin; Mammillothalamic tract; Rat; Projection (Fujii, S.) **401**, 1

Hippocampus;
Commissural–associational system; Rat; Mouse; Cholecystokinin (Fredens, K.) **401**, 68

Human hippocampus; Glutamate decarboxylase; Basket cell; Electron microscopy (Schlander, M.) **401**, 185

Choline acetyltransferase; Rabbit retina; Glutamate decarboxylase; Acetylcholinesterase; Dendritic stratification (Brandon, C.) **401**, 385

Hippocampus; Acetylcholine; Choline acetyltransferase (ChAT); Monoclonal antibody; Morphometry; Septal lesion; Rat (Matthews, D.A.) **402**, 30

γ -Aminobutyric acid (GABA); Tissue culture; Corpus striatum; Tectum; Tegmentum; Striatonigral neuron; Synaptic interaction (Shalaby, I.A.) **402**, 68

Estrogen receptor; Brain; Nucleus hyperstriatum ventrale, pars caudale; Canary; Zebra finch (Gahr, M.) **402**, 173

Gonadotropin releasing hormone (GnRH); Precursor to GnRH; Rat; Sheep; Rhesus monkey; Hypothalamus; Gonadotropin; Protein processing (Silverman, A.-J.) **402**, 346

Glutamate; Lateral olfactory tract; Mitral cell; N-Acetyl-aspartyl-glutamate; Neuropeptide; Olfactory bulb (Blakely, R.D.) **402**, 373

Weaver mutant mouse; Substantia nigra; Ventral tegmental area; Locus coeruleus; Tyrosine hydroxylase (Gupta, M.) **402**, 379

Neurotensin; Human infant; Thalamus; Subthalamus; Hypothalamus (Sakamoto, N.) **403**, 31

Hirano body; Tau protein; Alzheimer's disease; Cytoskeleton; Neurofibrillary tangle; Paired helical filament (Galloway, P.G.) **403**, 337

Peripheral nerve regeneration; 150 kDa neurofilament protein; α -MSH/NF150 cross-reacting antibody; Neurotrophic melanocortin (Verhaagen, J.) **404**, 142

Substance P; Brainstem; Human; Adult (Nomura, H.) **404**, 365

Median eminence; Histamine; Luteinizing hormone-releasing hormone (LH-RH) (Berkenbosch, F.) **405**, 353

Adipokinetic hormone (AKH); Red pigment concentrating hormone (RPCH); Neuropeptide; Invertebrate endocrinology; *Lymnaea*; *Porcellio*; *Lithobius*; *Astacus* (Schooneveld, H.) **406**, 224

Primary cultured neuron; Epilepsy; Ganglioside GD₃; Mutant El mouse (Sugaya, E.) **406**, 270

L-Enkephalin; Dorsal tegmental nucleus; Ventral tegmental nucleus; Fiber connection; Mammillary body; Interpeduncular nucleus; Rat (Yamano, M.) **408**, 22

Spinal cord; Intra-axonal staining; Primary afferent fiber; γ -Aminobutyric acid; Presynaptic inhibition; Cat (Maxwell, D.J.) **408**, 308

Hippocampus; Septum; γ -Aminobutyric acid; Biotinylated wheat germ agglutinin (Shinoda, K.) **409**, 181

γ -Aminobutyric acid (GABA); Calcitonin gene-related peptide; Coexistence; Purkinje cell; Rat

(Kawai, Y.) **409**, 371

Glutamic acid decarboxylase; Light microscopy; Glutamine synthetase; Electron microscopy; γ -Aminobutyric acid (GABA); Area postrema; Cat (D'Amelio, F.E.) **410**, 232

Circadian rhythm; Intergeniculate leaflet; Neuropeptide Y; Suprachiasmatic nucleus; Ventral lateral geniculate nucleus (Harrington, M.E.) **410**, 275

L-Glutamate decarboxylase; Catecholamine; Adrenaline; Brainstem; C₁ area (Milner, T.A.) **411**, 46

Adrenaline; Brainstem; Ultrastructure; C₁ area; Catecholamine (Milner, T.A.) **411**, 28

3',5'-Cyclic guanosine monophosphate; Superior cervical ganglion; Rat (De Vente, J.) **411**, 120

Retina; Neurotransmitter; Autoradiography; γ -Aminobutyric acid (GABA) (Yazulla, S.) **411**, 400

Horseradish peroxidase; Choline acetyltransferase; Lateral dorsal tegmental nucleus; Basal ganglion (Beninato, M.) **412**, 169

Neural transplant; Catecholamine; Synapse; Ultrastructure (Silverman, W.F.) **412**, 375

Benzodiazepine receptor; Benzodiazepine; Endogenous benzodiazepine; Monoclonal antibody (De Blas, A.L.) **413**, 285

Shiverer mouse; Na⁺, K⁺-ATPase; Myelin-associated glycoprotein; Central nervous system; Myelin; Trigeminal nerve (Sheedlo, H.J.) **415**, 105

Glycine; Cochlear Nucleus; Double labeling; Retrograde labeling (Wentholt, R.J.) **415**, 183

Enkephalin; Evolution; Frog; Hypothalamus; Optic tectum; Peptide; Toad (Merchenthaler, I.) **416**, 219

Dopaminergic neuron; Dwarf mouse; Tyrosine hydroxylase; Prolactin (Phelps, C.J.) **416**, 354

Parvalbumin; Cerebral cortex; Postmortem brain; Alzheimer's disease; Senile dementia (Arai, H.) **418**, 164

Enkephalin; Small intensely fluorescent cell; Superior cervical ganglion; Guinea pig (Matsuyama, T.) **418**, 325

Histaminergic innervation; Histidine decarboxylase-like immunoreactivity; Mesencephalic nucleus of the trigeminal nerve; Light microscopy; Electron microscopy; Rat (Inagaki, N.) **418**, 388

Microtubule-associated protein; Tau; Denervation; Hippocampus; Electrophoresis (Busciglio, J.) **419**, 244

Alzheimer disease; Paired helical

filaments; Cytoskeleton; Neurofilament; Microtubule associated protein (Perry, G.) **420**, 233

Substance P; Bed nucleus of the stria terminalis; Sex difference (Malsbury, C.W.) **420**, 365

Central nervous system neuron; Neuronal marker; Cell culture; Terminal differentiation; Monoclonal antibody (Wu, D.K.) **421**, 186

Cerebellum; Glutamate; Electron microscopy (Clements, J.R.) **421**, 343

Accumbens nucleus; Dopamine; Electron microscopy; γ -Aminobutyric acid; Lateral septum; Rat (Onténiente, B.) **421**, 391

Choline acetyltransferase; Edinger-Westphal nucleus; Anteromedian nucleus; Oculomotor nucleus; Ciliary ganglion; Retrograde transport; Double labelling (Strassman, A.) **423**, 293

Insular lobe; γ -Aminobutyric acid; Baboon (Augustine, J.R.) **424**, 352

Retina; LANT-6; Amacrine cell; Ganglion cell; Biochemistry (Eldred, W.D.) **424**, 361

Monoclonal antibody; Phenylalanine hydroxylase; Tyrosine hydroxylase; Tryptophan hydroxylase; Brain (Haan, E.A.) **426**, 19

Choline acetyltransferase; Rabbit retina (Brandon, C.) **426**, 119

DL-5-Hydroxytryptophan; Glutaraldehyde; Antibody; Enzyme-linked immunosorbent assay; Raphe nucleus (Geffard, M.) **426**, 191

Cholecystokinin; Thalamus; Trophostomolateral nucleus; Dorsal column nucleus (Hunt, C.A.) **426**, 257

Tyrosine hydroxylase; Midbrain; Electron microscopy; Radioautography (Hervé, D.) **435**, 71

Corticotropin-releasing factor (CRF); Superior cervical ganglion; Preganglionic fiber (Wanaka, A.) **435**, 91

Calcium-binding protein (CaBP-28k); Vestibular hair cell (Sans, A.) **435**, 293

Corticosteroid receptor; Rat brain (Van Eekelen, J.A.M.) **436**, 120

Cell-type-specific marker; Developmental neurobiology (Ventimiglia, R.) **436**, 339

Auditory pathway; Brainstem; Guinea pig; Neuropeptide; Sexual dimorphism; Vasopressin (Dubois-Dauphin, M.) **437**, 151

Renin; Brain cell culture; Radioimmunoassay; High performance liquid chromatography; Normotensive WKY rat; Spontaneously hypertensive (SH) rat (Hermann, K.) **437**, 205

- Photoreceptor; Müller cell; Opsin; Monoclonal antibody; Electron microscopy; Cell interaction (Akagawa, K.) **437**, 298
- Immunoelectron microscopy**
Calcitonin gene-related peptide fiber; Sympathetic neuron; Sensory fiber; Synaptic contact (Lee, Y.) **407**, 149
- Nervous system-specific protein; S54 protein; Dendrite; Synapse; Monoclonal antibody (Shirao, T.) **413**, 374
- Immunofluorescence**
Calcitonin gene-related peptide; Substance P; Somatostatin; Sensory neuron; Skin; Human (Gibbins, I.L.) **414**, 143
- Enkephalin; Substance P; Immunohistochemistry; Coexistence; Spinal cord; Cat (Tashiro, T.) **424**, 391
- Immunoglobulin**
Neuroendocrine cell; Supraoptic nucleus; Paraventricular nucleus; Lysosome; Immune-nervous system interaction (Meeker, M.L.) **423**, 45
- Spinal cord; Injury; Immunoglobulin G (IgG); Immunoglobulin M (IgM); Astrocyte; Regeneration (Bernstein, J.J.) **426**, 112
- Immunoglobulin G (IgG)**
Spinal cord; Injury; Immunoglobulin M (IgM); Astrocyte; Regeneration; Immunoglobulin (Bernstein, J.J.) **426**, 112
- Immunoglobulin M (IgM)**
Spinal cord; Injury; Immunoglobulin G (IgG); Astrocyte; Regeneration; Immunoglobulin (Bernstein, J.J.) **426**, 112
- Immunohistochemistry**
Hypothalamus; Medial preoptic area; Preoptic region; Sexual dimorphism (Simerly, R.B.) **400**, 11
- Calcineurin; Hippocampus; Zinc; Phosphatase; Calmodulin; Peroxidase antiperoxidase method (Matsui, H.) **402**, 193
- Glutamic oxaloacetic transaminase; Isozyme; Glutamate; Primary sensory neuron; Rat (Inagaki, N.) **402**, 197
- Dopamine; Tyrosine hydroxylase; γ -Aminobutyric acid; Glutamic acid decarboxylase; Coexistence; Olfactory bulb; Postnatal development (Kosaka, K.) **403**, 355
- Area postrema; Enkephalin; γ -Aminobutyric acid (GABA); Guanethidine; Neurotensin; Neurotoxin; Rat; Serotonin (Newton, B.W.) **404**, 151
- Synaptic vesicle; Monoclonal antibody; Immunoblot analysis; Specific protein (Obata, K.) **404**, 169
- Gonadotropin releasing hormone; Amygdala; Interpeduncular nucleus; Retrograde transport (Jennes, L.) **404**, 339
- Substance P; Calcitonin gene-related peptide; Cholecystokinin; Eye; Sensory innervation; Trigeminal ganglion; Guinea pig; Cholera toxin B subunit; Retrograde axonal transport (Kuwayama, Y.) **405**, 220
- Choline acetyltransferase; Cholinergic neuron; Cat (Stichel, C.C.) **405**, 395
- Tyrosine hydroxylase; Glutamate decarboxylase; Rat; Neostriatum; Synaptic input (Kubota, Y.) **406**, 147
- Parasympathetic preganglionic neuron; Met-Enk-Arg-Gly-Leu; Rat (Shimosegawa, T.) **406**, 341
- Estradiol; Hippocampus; Arcuate nucleus; Hypothalamus; Globus pallidus; Astrocyte; Glial fibrillary acidic protein (Tranque, P.A.) **406**, 348
- N*-Acetylaspartylglutamate; Neuropeptide; Retina; Spinal sensory neuron; Amphibian (Kowalski, M.M.) **406**, 397
- Choline acetyltransferase; Sensory neurone; Locust; Acetylcholine (Lutz, E.M.) **407**, 173
- Cerebellum; Dendrite; Neurofilament (Shiurba, R.A.) **407**, 205
- Peptide; Coexistence; Hypothalamus; Medullary raphe nucleus; Spinal cord (Holets, V.R.) **408**, 141
- Kinsmen Substance P; Acetylcholinesterase; Nucleus basalis of Meynert; Alzheimer's disease; Human brain (Beach, T.G.) **408**, 251
- Lamprey; Spinal cord; Neuropeptide; Phylogenetic conservation (Buchanan, J.T.) **408**, 299
- Choline acetyltransferase; Horseradish peroxidase; Basal forebrain; Thalamus (Steriade, M.) **408**, 372
- Homograft; Astrocyte; Implantation; Spinal cord injury (Connor, J.R.) **409**, 62
- Glutamate; Aspartate; Nerve terminal pool; Rat limbic system (Yoshida, M.) **410**, 169
- L-DOPA decarboxylase; L-Histidine decarboxylase; Amacrine cell; Horizontal cell; Histaminergic neuron; Neurotransmitter; Guinea pig (Ando-Yamamoto, M.) **410**, 269
- N*-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP); Serotonin; Mouse; Striatum; High-performance liquid chromatography (HPLC) (Hara, K.) **410**, 371
- Angiotensinogen; Angiotensin II; Brain; Astrocyte; Neuron; Choroid plexus; Rat (Imboden, H.) **410**, 74
- Guanine nucleotide-binding protein; Synapse; Retina; Neurotransmission; Rat (Terashima, T.) **410**, 97
- Optic tract; Lateral geniculate nucleus; Superior colliculus; Retina; Dipeptide; High-performance liquid chromatography (Anderson, K.J.) **411**, 172
- Cholinergic nucleus; Rat forebrain; Development; Degeneration (Sofroniew, M.V.) **411**, 310
- Cholinergic nucleus; Rat forebrain; Hypertrophy of neurons (Pearson, R.C.A.) **411**, 332
- γ -Aminobutyric acid (GABA); Peptide; Parvalbumin; Coexistence; Olfactory bulb (Kosaka, T.) **411**, 373
- Chick and pigeon retina; Visinin; Calcium-binding protein; Calbindin D-27 kDa; Western blotting (Pasteels, B.) **412**, 107
- γ -Aminobutyric acid; Substantia nigra; Superior colliculus; Ventromedial nucleus; Neuronal hypertrophy; Axonal sprouting (Pearson, R.C.A.) **412**, 352
- Nucleus basalis cell; Tyrosine hydroxylase; Choline acetyltransferase; Co-localization; Ferret (Henderson, Z.) **412**, 363
- Tyrosine hydroxylase; Choline acetyltransferase; Rat neostriatum; Electron microscopy (Kubota, Y.) **413**, 179
- γ -Aminobutyric acid; Catecholamine; Coexistence; Plasticity; Olfactory bulb (Kosaka, T.) **413**, 197
- Choline acetyltransferase; Frog; Nucleus isthmi; Optic tectum; *Rana pipiens* (Desan, P.H.) **413**, 344
- Choline acetyltransferase; Hypothalamus; Tuber cinereum; Primate; Rat (Tago, H.) **415**, 49
- Thyrotropin-releasing hormone; Serotonin; Substance P; Coexistence; Intermediolateral cell column; Preganglionic; Sympathetic outflow (Appel, N.M.) **415**, 137
- Benzodiazepine receptor; Glutamate decarboxylase; GABAergic synapse; Primate retina (Mariani, A.P.) **415**, 153
- Quinolinic acid; Excitotoxin; Neuropeptide Y; Basal ganglion; Striatum; Rat (Boegman, R.J.) **415**, 178
- Calcitonin gene-related peptide; Cerebellum; Development; Rat (Kubota, Y.) **415**, 385
- γ -Aminobutyric acid (GABA); Aspartate; Vestibular nuclei; Guinea pig (Kumoi, K.) **416**, 22
- Neurotensin; Median eminence; Arcuate nucleus; Hypothalamic lesion (Kiss, A.) **416**, 129
- Acetylcholinesterase; Basal ganglion;

Catecholamine; Dopamine; Huntington's disease (Ferrante, R.J.) **416**, 141

Bombesin; Stomach; Celiac ganglion; Retrograde labeling (Hamaji, M.) **416**, 192

Ciliary ganglion; Catecholamine; Dopamine; Tyrosine hydroxylase; Fluorescence histochemistry; Mammal (Uemura, Y.) **416**, 200

Fast spiking cell; Calcium-binding protein; Parvalbumin; γ -Aminobutyric acid (GABA)ergic neuron; Non-pyramidal cell; Hippocampus; Intracellular injection of Lucifer yellow (Kawaguchi, Y.) **416**, 369

Guanine nucleotide-binding protein; Islet-activating protein substrate; Islet of Langerhans; Signal transduction (Terashima, T.) **417**, 190

Cortex; Cholinergic; Somatostatin; Nucleus basalis; Rat (Mufson, E.J.) **417**, 385

Medial basal hypothalamus; Serotonin; Midbrain; Pons; Fast blue; Fluoro-gold (Willoughby, J.O.) **418**, 170

Calcitonin gene-related peptide; Substance P; Quinolinic acid; Kainic acid; Striatum; Cat (Sugimoto, T.) **418**, 392

γ -Aminobutyric acid (GABA); Glutamic acid decarboxylase (GAD); Ca^{2+} binding protein; Parvalbumin; Local circuit neuron; Hippocampus; Dentate gyrus (Kosaka, T.) **419**, 119

Thyrotropin-releasing hormone; Intracellular staining; Horseradish peroxidase; Spinal cord; Motoneuron (Ulfhake, B.) **419**, 387

Peptide; Co-existence; Visual cortex; Rat (Papadopoulos, G.C.) **420**, 95

Retina; Visual cortex; Lateral geniculate nucleus; Pulvinar; Peptide; Cat (Bliss Tieman, S.) **420**, 188

Acetylcholinesterase; Chicken; Histochemistry; Retina; Ultrastructure (Millar, T.J.) **421**, 297

Hypophysectomy; Neurosecretory neuron; Regeneration; Median eminence; Vasopressin; Oxytocin; Postnatal development (Kawamoto, K.) **422**, 106

Lys⁸-Asn⁹-Neurotensin(8-13); Neuromedin N; Basal ganglion; Globus pallidus; Striatum; Monkey (Reiner, A.) **422**, 186

Astroglia; Glial fibrillary acidic protein (GFA-protein); In-situ hybridization; CDNA probe; Regional difference of GFA-protein; Heterogeneity of astroglia (Kitamura, T.) **423**, 189

Rat; Fiber tracing; Colocalization; Fluoro-Gold dye; Neuropeptide; Bulbosplinal system (Millhorn, D.E.) **424**, 99

Cerebral blood flow; Cerebral ischemia; Gerbil; Quantitative autoradiography (Matsumoto, M.) **424**, 231

Growth hormone-releasing factor (GRF); Paraventricular nucleus; Arcuate nucleus; Monoclonal antibody; Rat (Bruhn, T.O.) **424**, 290

Enkephalin; Substance P; Immunofluorescence; Coexistence; Spinal cord; Cat (Tashiro, T.) **424**, 391

Serotonin; Neostriatum; Quantified distribution; Radioautography (Soghomonian, J.-J.) **425**, 85

Somatostatin; Cerebral cortex; Ultrastructure (Mizukawa, K.) **426**, 28

Vasoactive intestinal polypeptide; Retina; Amacrine cell (Sagar, S.M.) **426**, 157

Angiotensin II; Angiotensin III; Rat brain; Affinity purification (Imboden, H.) **426**, 225

Basal ganglia; Globus pallidus; Dopamine; Tyrosine hydroxylase; Primate (Parent, A.) **426**, 397

Atrial natriuretic peptide; Atriopeptin I; Atriopeptin II; Pial arteriole; Cerebrovascular circulation (Macrae, I.M.) **435**, 195

Creatine kinase (CK); Neuron; Zona incerta; Lateral hypothalamic area; Mouse brain (Ikeda, K.) **435**, 348

Guanosine triphosphate (GTP)-binding protein; Islet-activating protein (pertussis toxin); Retina; Species difference (Terashima, T.) **436**, 384

Immunoinflammatory response

Astrocyte; Leukotriene production; Calcium ionophore A23187; 12-*O*-Tetradecanoylphorbol 13-acetate (TPA); Brain edema (Hartung, H.-P.) **435**, 367

Immunoreactive site

Regeneration; Laminin; Growth factor; Central nervous system (Zak, N.B.) **408**, 263

Immunoreactivity

γ -Aminobutyric acid (GABA); Vestibular endorgan; Efferent system; Squirrel monkey (Usami, S.-I.) **417**, 367

Immunoreactivity pattern

Dopamine; Enkephalin; Substance P; Dorsal striatum; Ventral striatum (Voorn, P.) **412**, 391

Impedance

N-Methyl-D-aspartate receptor; Fictive locomotion; Voltage clamp; Admittance; Voltage-dependent conductance; Excitatory synaptic current; Lamprey (Moore, L.E.) **419**, 397

Implantation

Homograft; Astrocyte; Spinal cord injury; Immunohistochemistry (Connor, J.R.) **409**, 62

Impulse flow

Rat; Septohippocampal pathway; Axonal terminal excitability; Antidromic stimulation; Microiontophoresis; γ -Aminobutyric acid (GABA); Glutamate; Autoreceptor (Dutar, P.) **418**, 98

In oculo brain graft

Aging; Cerebellum; Norepinephrine; Electrophysiology; In vivo electrochemistry (Granholm, A.-C.) **423**, 71

In situ

Hippocampus; Push-pull zinc; Mossy fiber (Anikstejn, L.) **404**, 58

In vitro

Progesterone; Dopamine; Corpus striatum; Female rat; Amphetamine (Dluzen, D.E.) **406**, 1

Area octavolateralis; Horseradish peroxidase; Lateral lemniscus; Lateral line; Urodele amphibian (Gonzalez, A.) **423**, 338

Vestibular nucleus; *N*-Methyl-D-aspartate; Acidic amino acid receptor; Dendritic cable property; Modulator (Knöpfel, T.) **426**, 212

In vitro autoradiography

N-Acetyl-aspartylglutamate; Lateral septal nucleus; Fimbria; Microiontophoresis; Receptor (Joëls, M.) **403**, 192

Muscarinic acetylcholine receptor; M_1 - and M_2 -receptors; Ontogeny; Rat brain (Miyoshi, R.) **420**, 302

In vitro central nervous system preparation

Isolated spinal cord; Mammalian; Reflex activity (Bagust, J.) **411**, 397

In vitro incubation

α -MSH; β -Endorphin; Somatostatin (SRIF); Median eminence (ME) (Aguila, M.C.) **417**, 127

In vitro intracellular recording

Serotonin; Lateral septum; 5-HT_{1a} agonist (Joëls, M.) **417**, 99

In vitro preparation

Guinea pig; Respiratory rhythm generation; CNS electrophysiology; Intracellular recording; Brain perfusion (Richerson, G.B.) **409**, 128

In vitro receptor autoradiography

Sertraline; Serotonin; β -Adrenergic; [³H]Dihydroalprenolol (Byerley, W.F.) **421**, 377

In vitro release

[³H]Dopamine release; Nucleus accumbens; D₂ receptor; Apomorphine; Deskenkephalin- γ -endorphin; Dopamine agonist; Dopamine antagonist

(Radhakishun, F.S.) **426**, 235

In vitro slice

Cholecystokinin; Ventral tegmental area; Dopamine; Electrophysiology; Co-transmitter (Brodie, M.S.) **425**, 106

In vitro slice preparation

Rat prefrontal cortex; Intracellular recording; Dopamine; Pyramidal cell (Penit-Soria, J.) **425**, 263

In vitro superfusion

Nitrous oxide; β -Endorphin; α -Melanocyte stimulating hormone; Medial basal hypothalamus; Cytodex beads (Zuniga, J.R.) **420**, 66

In vivo

Phospholipid methylation; Phosphatidylcholine; S-adenosylmethionine; Subcellular fraction (Lakher, M.) **419**, 131

In vivo autoradiography

[³H]Cyclofoxy; Positron emission tomography (PET); Opiate receptor; Naloxone; Autoradiography; Cyclofoxy; Radiolabeled opiates; Naltrexone; Rat brain; Opiate receptor distribution; 6-Deoxy- β -fluoronaltrexone (Ostrowski, N.L.) **402**, 275

Drinking; Reinforcement; Opioid; Opiate receptor; Deprivation (Blake, M.J.) **413**, 111

Brain stimulation; Reward; Aversive footshock; Opiate receptor (Blake, M.J.) **435**, 181

In vivo electrochemistry

Dopamine; Nigrostriatal neuron (El Ganouni, S.) **404**, 239

Cerebellum; Noradrenaline; Potassium-evoked release; Nomifensine; Rat (Gerhardt, G.A.) **413**, 327

Ventrolateral medulla; Catecholamine metabolism; Central nervous system cardiovascular control; Hemorrhagic shock; Controlled hypotension; Clonidine; Rat (Gillon, J.-Y.) **418**, 157

Aging; Cerebellum; In oculo brain graft; Norepinephrine; Electrophysiology (Granholm, A.-C.) **423**, 71

In vivo labeling

5-Hydroxytryptamine; 5,7-Dihydroxytryptamine; 5-Hydroxytryptamine neuron; *Aplysia* (Jahan-Parwar, B.) **426**, 173

In vivo ligand binding

Dopamine receptor; [³H]*N*-*n*-propylnorapomorphine; Striosome; Dipping autoradiography; Acetylcholinesterase histochemistry (Loopuijt, L.D.) **405**, 405

Dopamine receptor; Spiperone binding; D₁ receptor; D₂ receptor (Leslie, C.A.) **407**, 253

In vivo push-pull perfusion

LY171555 (Quinpirole); Metoclopramide; Dopaminergic System Activity; Striatum; Desoxycorticosterone acetate (DOCA)/NaCl-hypertensive rat; High-performance liquid chromatography (HPLC) (Chen, Y.-F.) **400**, 225

In vivo receptor labeling

D₁- and D₂-dopamine receptor; Neuroleptic drug; Single photon emission computed tomographic (SPECT) scanning (Leslie, C.A.) **415**, 90

In vivo voltammetry

Serotonin; Dorsal raphe; Dopamine; Kaicic acid (De Simoni, M.G.) **411**, 81

Tryptophan; Serotonin metabolism; High-pressure liquid chromatography (HPLC) (De Simoni, M.G.) **411**, 89

Antidromic activation; Dopaminergic neuron; Medial forebrain bundle; Neostriatum; Unit activity (Kuhr, W.G.) **418**, 122

Dopamine; Electrical stimulation; Synthesis; Metabolism; Compartment; Dynamics; Autoreceptor (Michael, A.C.) **421**, 325

A1-cell group; Caudal ventrolateral medulla; Catecholamine metabolism; Baroreceptor reflex; Vasomotor center; Central cardiovascular control; Rat (Quintin, L.) **425**, 319

In-situ hybridization

Astroglia; Glial fibrillary acidic protein (GFA-protein); CDNA probe; Immunohistochemistry; Regional difference of GFA-protein; Heterogeneity of astroglia (Kitamura, T.) **423**, 189

Inactivation

Potassium channel; Patch clamping; Voltage-dependent channel; Non-inactivating current; *Helix* neuron (Ram, J.L.) **405**, 16

Ca²⁺ current; Ca²⁺ spike; Conductance; Hippocampus; Voltage-clamp; Vertebrate central nervous system (Pitler, T.A.) **410**, 147

Zonisamide; Sodium current; Axon; Anticonvulsant (Schauf, C.L.) **413**, 185

Inbred mouse

Corpus callosum; Lateralization (Ward, R.) **424**, 84

Inbred strain

Mouse; Protein polymorphism; LTW-4; Two-dimensional electrophoresis; Ethanol acceptance; Pharmacogenetics; Recombinant inbred strain; Alcohol (Goldman, D.) **420**, 220

Inclined plane

Horseradish peroxidase; Cortex; Red nucleus; Clip injury; Rat (Midha, R.) **410**, 299

Independent opioid receptor

Rat corticosterone; β -Endorphin; Dynorphin; Tolerance (Iyengar, S.) **435**, 220

Individual motor unit response

Human corticospinal tract; Percutaneous stimulation; Corticospinal tract jitter; Spinal monosynaptic transmission (Zidar, J.) **422**, 196

Indole-3-acetaldehyde

Aldehyde dehydrogenase inhibitor; Diethyldithiocarbamate; Disulfiram; Tryptophan hydroxylase; 5-Hydroxyindole-3-acetaldehyde (Nilsson, G.E.) **409**, 374

Indomethacin

Fever; Arginine vasopressin; Vasopressin; Set point; Thermoregulation (Wilkinson, M.F.) **415**, 275

Heat stress; 5-Hydroxytryptamine level; Blood-brain barrier permeability; Cerebral blood flow; *p*-Chlorophenylalanine; Diazepam; Cyproheptadine; Vinblastine (Sharma, H.S.) **424**, 153

Infarction

Hyperglycemia; Focal ischemia; Middle cerebral artery; Lactacidosis; Rat (Nedergaard, M.) **408**, 79

Inferior alveolar nerve

Membrane potential dependence; Postsynaptic potential; Cerebral cortex; Lingual nerve; Hypoglossal motoneuron; Cat (Takata, M.) **426**, 358

Inferior colliculus

Bat; Response center; Auditory space representation (Jen, P.H.) **419**, 7

Audiogenic seizure; Cyclic AMP; Convulsion; Rat (Ludvig, N.) **437**, 193

Inferior olivary nucleus

Cerebellum; Climbing fiber; Mossy fiber; Locomotor activity; Cyclic guanosine monophosphate (McCaslin, P.P.) **414**, 381

Inferior olive

Kainic acid; Cerebellar inhibition (Batini, C.) **403**, 186

Nucleus of the optic tract; γ -Aminobutyric acid; Horseradish peroxidase; Tetramethylbenzidine; Monkey; Cat; Rat (Horn, A.K.E.) **409**, 133

Corticotropin-releasing factor; Human cerebellum; Peptide (Powers, R.E.) **415**, 347

Retrograde transneuronal transfer; Herpes simplex virus (HSV); Herpes simplex virus replication in neurones; Astrocyte; Hypoglossal (XII) motoneuron; XII Premotor interneuron; Bergmann glial cell (Ugolini, G.) **422**, 242

Deep cerebellar nucleus; Glutamic acid decarboxylase; Cerebellar cortex;

Climbing fiber; Purkinje cell; Motor behavior; Behavioral recovery;
3-Acetylpyridine (Sukin, D.) **426**, 82

Inferotemporal neuron

Auditory signal; Selective attention; Visual cognition; Monkey (Iwai, E.) **410**, 121

Inflammation

Phorbol diester
12-*O*-tetradecanoyl-phorbol-13-acetate; Protein kinase C; Astrocyte; Arachidonic acid metabolism; Prostaglandin E; Immune response (Hartung, H.-P.) **417**, 347

Infrared sensitive

Snake; Trigeminal; Oral cavity (Dickman, J.D.) **400**, 365

Inhibition

4-Aminopyridine; γ -Aminobutyric acid (GABA); Hippocampus (Avoli, M.) **400**, 191

Spinal cord; Dorsal horn; Nociceptive neuron; Muscle afferent; GABA; Bicuculline (Morris, R.) **401**, 365

Locus coeruleus; Brainstem; Monosynaptic reflex; Renshaw cell; Descending control; Spinal cord; Motoneuron (Fung, S.J.) **402**, 351

Seizure; Epilepsy; Interictal; Anticonvulsant; Baclofen; Magnesium (Swartzwelder, H.S.) **410**, 362

Drinking; Dehydration; Cerebrospinal fluid sodium concentration (CSF [Na]); CSF osmolality (Osborne, P.G.) **412**, 36

Defence reaction; Dopaminergic system; Ventromedial hypothalamus; A10 region; Sulpiride (Piazza, P.V.) **413**, 356

Periaqueductal gray; Nucleus raphe magnus; Lateral reticular nucleus; Spontaneous activity; Noxious-evoked activity; Excitation (Sotgiu, M.L.) **414**, 219

Spinal trigeminal nucleus; Subnucleus oralis; Subnucleus caudalis; Tooth pulp; Enkephalin; Naloxone (Ujihara, H.) **418**, 52

Peptide; Pedal ganglion; *Mytilus*; Anterior byssus retractor muscle (ABRM); Catch tension; Relaxation (Hirata, T.) **422**, 374

Morphine; Presynaptic opiate receptor; Locus coeruleus; Purkinje cell; Norepinephrine; γ -Aminobutyric acid (Moises, H.C.) **423**, 149

Inhibition of action potential

Cell membrane expansion; Tissue culture; Dorsal root ganglion; Neuron; 2-Decenoic acid; Fatty acid; Adult mouse (Horie, H.) **411**, 298

Inhibitory postsynaptic potential

4-Aminopyridine; Hippocampal neuron (Segal, M.) **414**, 285

Chronic spinal cord transection; Cutaneous reflex; Excitatory postsynaptic potential (Baker, L.L.) **420**, 340

Anticonvulsant; Hippocampus; Valproate (Preisendörfer, U.) **435**, 213

Inhibitory postsynaptic potential (IPSP)

Anesthetic; Halothane; Motoneuron; Excitatory postsynaptic potential (EPSP); Spinal cord (Takenoshita, M.) **402**, 303

Hippocampal slice; Spreading depression; γ -Aminobutyric acid (GABA); Development; Pyramidal cell; Anoxia (Janigro, D.) **404**, 189

Reticular formation; Nucleus reticularis gigantocellularis; Spinal cord; Motoneuron; Sleep; Glycine; γ -Aminobutyric acid (Soja, P.J.) **423**, 353

Inhibitory synapse

Domestic chicken; Avian; Forebrain; Neurotransmitter amino acid (Csillag, A.) **437**, 283

Inhibitory transmitter

Glycine; Lateral horn cell; Spinal cord (Mo, N.) **400**, 139

Injury

Hyperalgesia; Neurogenic inflammation; Spinal hyperactivity; C-Fiber afferent; Sympathetic efferent; Autotomy; Contralateral foot-withdrawal (Coderre, T.J.) **404**, 95

Neurite; Transection; Axotomy; Trauma; Calcium; Retraction; Death (Lucas, J.H.) **425**, 384

Spinal cord; Immunoglobulin G (IgG); Immunoglobulin M (IgM); Astrocyte; Regeneration; Immunoglobulin (Bernstein, J.J.) **426**, 112

Inner core

Pacinian corpuscle; Extracellular matrix; Basal lamina; Nerve regeneration; Freezing (Ide, C.) **413**, 155

Inositol 1,4,5-trisphosphate

Photoreceptor; Calcium; Aequorin; Discrete burst; Microinjection (Corson, D.W.) **423**, 343

Inositol phosphate

Cerebral cortex; Muscarinic cholinergic receptor; Carbamylcholine; Pirenzepine; AF-DX 116 (Smith, T.L.) **420**, 362

Inositol phosphate metabolism

Receptor; Serotonergic; Muscarinic; Retina (Cutcliffe, N.) **421**, 95

Inositol phospholipid

γ -Aminobutyric acid; Norepinephrine; Hippocampal slice; Neurotransmitters' interaction; γ -Aminobutyric acid agonist (Corradetti, R.) **411**, 196
Cholecystokinin (CCK);

Cholecystokinin release; Lithium; Caudate-putamen; Cerebral cortex (Gysling, K.) **413**, 365

Inositol phospholipid hydrolysis

Brain lesion; Glutamate; Ibotenate; Noradrenaline (Nicoletti, F.) **436**, 103

Inositol trisphosphate

Intracellular calcium; Uptake; Release; Brain microsome (Shah, J.) **419**, 1

Input

C₃-C₅ propriospinal neurone; Subgroup; Regulation hindlimb tonus (Alstermark, B.) **404**, 395

Input resistance

Locus coeruleus; Spinal motoneuron; Excitatory postsynaptic potential (EPSP); Membrane excitability; Electrical stimulation; Cat (Fung, S.J.) **402**, 230

Insect

γ -Aminobutyric acid (GABA); Benzodiazepine; Barbiturate; Locust; Neuron; Neuronal modulation (Lees, G.) **401**, 267

Glial cell; Neurite outgrowth; Central nervous system explant; Electron microscopy (Vanheems, E.) **411**, 129

Octopamine; Proctolin; Release; Visceral muscle (Orchard, I.) **413**, 251

Proprioception; Reflex; Freely moving animal; Load compensation; Chordotonal organ (Zill, S.N.) **417**, 195

Inspiratory neuron

Newborn pig; Phrenic nerve; Pulmonary afferent (Sica, A.L.) **408**, 222

Insular lobe

γ -Aminobutyric acid; Immunocytochemistry; Baboon (Augustine, J.R.) **424**, 352

Insulin

Monosodium glutamate; Bipiperidyl mustard; Cholecystokinin; Ventromedial hypothalamus; Paraventricular nucleus; Hyperphagia; Feeding; Obesity (Scallet, A.C.) **407**, 390

Insulin derivative; Insulin receptor; Centrally mediated hypoglycemia; Lipogenesis; Mouse (Amir, S.) **418**, 152

Vanadate; Vanadyl; Glucose transport; Hyperglycemia; Central nervous system; Autonomic nervous system; Mouse (Amir, S.) **419**, 392

Blood glucose; Hypoglycemia; Locus coeruleus; Noradrenergic neuron; Stress (Morilak, D.A.) **422**, 32

Thyrotropin-releasing hormone; Epinephrine-stimulated hyperglycemia; Thyrotropin-releasing hormone analog; Autonomic nervous system; Mouse (Amir, S.) **435**, 112

Insulin derivative

Insulin; Insulin receptor; Centrally mediated hypoglycemia; Lipogenesis; Mouse (Amir, S.) **418**, 152

Insulin receptor

Skeletal muscle; Neurotrophism; Denervation (Hofmann, W.W.) **401**, 312

Norepinephrine uptake; Neuron; Phosphorylation; α -Subunit; β -Subunit (Masters, B.A.) **417**, 247

Insulin; Insulin derivative; Centrally mediated hypoglycemia; Lipogenesis; Mouse (Amir, S.) **418**, 152

Intact cell and membrane

Cerebellar astrocyte; Culture condition and morphology; Quantitation of β -adrenergic receptor (Voisin, P.J.) **404**, 65

Integral method

Benzodiazepine; Transport; Blood-Brain: Receptor; Blood flow; Autoradiography (Drewes, L.R.) **401**, 55

Interaction of afferent inputs

Somatosensory cortex; Periodontal mechanosensitive neuron; Sensory adaptation; Directional selectivity (Taira, K.) **409**, 52

Intercostal activity

Purring; Cross-correlation; Stretch reflex; Small amplitude vibration; Vocalization (Kirkwood, P.A.) **405**, 187

Intercostal-to-phrenic reflex

Brainstem; Phrenic afferent; Respiration; Spinal cord (Speck, D.F.) **414**, 169

Interdependence

Central nervous system (CNS); Electrophysiology; Cortex; Olfaction; Field potential; Correlation (Bressler, S.L.) **409**, 285

Interferon- γ

Astrocyte; Lipopolysaccharide; Apolipoprotein E (Oropeza, R.L.) **410**, 45

Intergeniculate leaflet

Circadian rhythm; Immunocytochemistry; Neuropeptide Y; Suprachiasmatic nucleus; Ventral lateral geniculate nucleus (Harrington, M.E.) **410**, 275

Interhemispheric relationship

Unilateral cerebral drug administration; Haloperidol; Amphetamine; Pharmacokinetics (Hyde, J.F.) **421**, 117

Interhemispheric transfer

Corpus callosum; Monkey; Somatosensory system; Receptive field; Midline fusion (Guillemot, J.-P.) **402**, 293

Interictal

Seizure; Epilepsy; Anticonvulsant; Baclofen; Inhibition; Magnesium (Swartzwelder, H.S.) **410**, 362

Interictal behavior

Epilepsy; Seizure; Emotion; Defence reaction; Kainic acid; Aggression; Temporal lobe (Griffith, N.) **400**, 360

Interleukin-1

Vasopressin; 1-Desamino-8-D-arginine vasopressin; Fever; Neuropeptide; Vasopressor antagonist; V_1/V_2 receptor (Naylor, A.M.) **401**, 173

Intermediate lobe

5,7-Dihydroxytryptamine; Dorsomedial nucleus of the hypothalamus; Electrical stimulation; 5-Hydroxytryptamine synthesis; Neural lobe; Pituitary gland; Raphe nuclei (Shannon, N.J.) **416**, 322

Intermediolateral cell column

Thyrotropin-releasing hormone; Serotonin; Substance P; Coexistence; Immunohistochemistry; Preganglionic; Sympathetic outflow (Appel, N.M.) **415**, 137

Substance P; Ventral medulla; Retrograde transport; Rhodamine-labeled latex microsphere; Nucleus reticularis paragigantocellular lateralis (Charlton, C.G.) **418**, 245

Intermediolateral nucleus

Paramedian reticular nucleus; Spinal cord; Horseradish peroxidase; Fluorescent dye; Axonal branching; Cardiovascular regulation (Elisevich, K.) **408**, 227

Internal genitalia

Sensory innervation; External genitalia; Female rat (Peters, L.C.) **408**, 199

Internal perfusion

Frog sensory neuron; γ -Aminobutyric acid; Chloride current; Calcium current; Concentration-clamp technique (Inoue, M.) **404**, 301

Nodose ganglion; Membrane current; Transient outward current (Oyama, Y.) **410**, 61

Synthetic ω -conotoxin; Concentration clamp; Ca^{2+} current (Oyama, Y.) **424**, 58

Interneuron

Medial septum; Hippocampus; Perforant path; Commissure; Granule cell; Disinhibition (Bilkey, D.K.) **405**, 320

Crayfish; Tritocerebrum; Stimulus coding; Morphology; Classification (Tautz, J.) **407**, 230

Long-term potentiation; Hippocampus (Taube, J.S.) **419**, 32

Axon reaction; Lamprey; Spinal cord; Axonal regeneration; Chromatolysis; Denervation; Spontaneous synaptic activity (Yin, H.-S.) **421**, 48

Hippocampus; Complex-spike cell; θ -Neuron; Pyramidal cell; Noradrenaline; α -Receptor; β -Receptor (Pang, K.) **425**, 146

Internuclear connection

Trigeminal sensory nucleus; Horseradish peroxidase (Nasution, I.D.) **425**, 234

Interpeduncular nucleus

Gonadotropin releasing hormone; Amygdala; Immunohistochemistry; Retrograde transport (Jennes, L.) **404**, 339

L-Enkephalin; Dorsal tegmental nucleus; Ventral tegmental nucleus; Fiber connection; Mammillary body; Immunocytochemistry; Rat (Yamano, M.) **408**, 22

Acetylcholine; Choline acetyltransferase; Medial habenula; Fasciculus retroflexus; Cytochrome oxidase; Plasticity (Eckenrode, T.C.) **418**, 273

Fasciculus retroflexus; Heterotypic collateral sprouting; Homotypic collateral sprouting; Locus coeruleus; Noradrenaline (Battisti, W.P.) **418**, 287

Fasciculus retroflexus; Substance P; Choline acetyltransferase; Serotonin; Cytochrome oxidase; Bodian stain; Plasticity; Development (Barr, G.A.) **418**, 301

Transforming growth factor- α ; Fluoro-Gold; Opioid peptide; Met-enkephalin-Arg-Gly-Leu (MERGL) peptide; Leu-enkephalin peptide; Co-localization; Raphe nucleus (Code, R.A.) **421**, 401

Interposed nucleus

Cerebellar cortex; Simple spike; Purkinje cell; Cross-correlation (McDevitt, C.J.) **425**, 1

Cerebellar cortex; Climbing fiber afferent; Complex spike; Simple spike; Purkinje cell (McDevitt, C.J.) **425**, 14

Interstimulus interval

Conditioning; Motor response latency; Associative stimulus (Hirano, T.) **400**, 171

Interval feeding

Dopamine; Microdialysis; Striatum; Behavior; HPLC/EC (Church, W.H.) **412**, 397

Intra-axonal staining

Spinal cord; Immunocytochemistry; Primary afferent fiber; γ -Aminobutyric acid; Presynaptic inhibition; Cat (Maxwell, D.J.) **408**, 308

Intracardiac neuron

Colocalization; Neuropeptide Y; 5-Hydroxytryptamine; Dopamine β -hydroxylase; Heart; Tissue culture (Hassall, C.J.S.) **422**, 74

Intracellular

Serotonin; Cortical neuron; 5-HT₁; 5-HT₂; Depolarization; Hyperpolarization (Davies, M.F.) **423**, 347

Respiration; Neural; Spinal cord; Cat

(Duffin, J.) **435**, 351

Neuroendocrine;
Corticotropin-releasing factor (CRF);
Terminal bouton (Rho, J.-H.) **436**, 143

Intracellular analysis

Transplantation; Visual cortex; Lateral geniculate nucleus; Slice preparation; Current source-density analysis (Hamasaki, T.) **422**, 172

Intracellular Ca^{2+}

Calcium channel; Enkephalin receptor; NG 108-15; Naloxone; Ba current (Shimahara, T.) **415**, 357

Intracellular Ca^{2+} release

Ca^{2+} -activated K^{+} channel (Satin, L.) **401**, 331

Intracellular calcium

Uptake; Release; Inositol trisphosphate; Brain microsome (Shah, J.) **419**, 1

$\text{Na}^{+}/\text{Ca}^{2+}$ exchange; Calcium channel; Ageing (Martínez, A.) **435**, 249

Intracellular calcium concentration

Bursting activity; Calcium ionophore; Snail neuron; Seizure (Sugaya, E.) **416**, 183

Intracellular horseradish peroxidase

Dorsal raphe; Non-serotonergic; Intracellular recording; Neuron type; Computer reconstruction (Park, M.R.) **402**, 117

Dorsal root ganglion cell; Functional morphology; Slowly conducting fiber; Dichotomizing fiber; Soma size distribution (Hoheisel, U.) **423**, 269

Somatosensory cortex; Pyramidal tract neuron; Layer V pyramidal neuron; Cat (Yamamoto, T.) **437**, 369

Intracellular injection of HRP

Non-pyramidal cell; Fast spiking cell; GABAergic neuron; Hippocampus; Dentate gyrus; Slice preparation (Kawaguchi, Y.) **411**, 190

Intracellular injection of Lucifer yellow

Fast spiking cell; Calcium-binding protein; Parvalbumin; γ -Aminobutyric acid (GABA)ergic neuron; Non-pyramidal cell; Hippocampus; Immunohistochemistry (Kawaguchi, Y.) **416**, 369

Intracellular ion activity

Choroid plexus; Chloride; Membrane transport; Cerebrospinal fluid; Cyclic AMP; Bullfrog (Saito, Y.) **417**, 267

Intracellular recording

N-Acetylaspartylglutamate; Aspartate; Glutamate; Cultured neuron; Chick cerebellum; Antagonist (Mori-Okamoto, J.) **401**, 60

Expiratory neuron; Nucleus retroambiguus; Postsynaptic potential; Horseradish peroxidase; Axon

collateral; Antidromic stimulation (Arita, H.) **401**, 258

Dorsal raphe; Non-serotonergic; Intracellular horseradish peroxidase; Neuron type; Computer reconstruction (Park, M.R.) **402**, 117

5,7-Dihydroxytryptamine; Feeding behavior; Aversive conditioning; 'Lip-CNS' preparation (Balaban, P.M.) **404**, 201

Noradrenaline; α -Receptor; Supraoptic neuron; Brain slice (Yamashita, H.) **405**, 348

Calcium-activated potassium conductance; Neuroleptic; Hippocampus (Dinan, T.G.) **407**, 159

Retina; Enkephalin; γ -Aminobutyric acid; Coexistence; On-Off ganglion cell; Larval tiger salamander (Watt, C.B.) **408**, 258

Brainstem connectivity; Medial pontine reticular formation; Bulbar reticular formation (Ito, K.) **409**, 97

Brainstem connectivity; Medial pontine reticular formation; Midbrain reticular formation (McCarley, R.W.) **409**, 111

Guinea pig; Respiratory rhythm generation; CNS electrophysiology; In vitro preparation; Brain perfusion (Richerson, G.B.) **409**, 128

Ethyl alcohol; Hippocampus; Transmembrane property; Synaptic potential; Electrophysiology (Siggins, G.R.) **414**, 22

Tachykinin; Avian sympathetic ganglion; Slow synaptic potential; M-current; Substance P; Autonomic pharmacology (Ramirez, O.A.) **414**, 228

Caudate nucleus; Dopamine; Dopamine receptor; Haloperidol; Slice (Akaike, A.) **418**, 262

Respiratory rhythm; Expiratory neuron; Phrenic nerve; Recurrent laryngeal nerve; Pulmonary afferent (Sec, W.R.) **421**, 363

Synaptic plasticity; Conditioning; Motor cortex; Colchicine; EGTA (Baranyi, A.) **423**, 378

Rat prefrontal cortex; In vitro slice preparation; Dopamine; Pyramidal cell (Penit-Soria, J.) **425**, 263

Cat bladder ganglion; Parasympathetic neuron; Postganglionic stimulation; Slow synaptic hyperpolarization (Kumamoto, E.) **435**, 403

Rat subthalamic neuron; Slice preparation; Membrane property (Nakanishi, H.) **437**, 35

Rat substantia nigra neuron; Slice preparation; Membrane property; Subthalamic input (Nakanishi, H.) **437**, 45

Intracellular response

Phorbol ester; Kinase C; Neocortex; Chronic cat (Baranyi, A.) **424**, 396

Intracellular staining

Immunohistochemistry; Thyrotropin-releasing hormone; Horseradish peroxidase; Spinal cord; Motoneuron (Ulfhake, B.) **419**, 387

Intracellular theta

Theta genesis; Hippocampal pyramid; Slow spike; Spike burst; Lucifer yellow (Núñez, A.) **416**, 289

Intracellular voltammetry

Serotonin; Metacerebral cell; *Aplysia*; Platinum electrode (Meulemans, A.) **414**, 158

Intracerebral dialysis

Amphetamine; Dopamine release; Microdialysis; Stereotype; Locomotor activity; Striatum; Nucleus accumbens (Sharp, T.) **401**, 322

Adrenaline release; Noradrenaline release;

Phenylethanolamine-*N*-methyltransferase (PNMT) inhibitor; Idazoxan; Monoamine oxidase (MAO) inhibitor; *N*-(2-Chloroethyl)-*N*-ethyl-2-bromobenzylamine (DSP₄) (Routledge, C.) **426**, 103

Intracerebral injection

Affective defense behavior; Anterior hypothalamus; Ventromedial hypothalamus; Noradrenaline; Yohimbine (Barrett, J.A.) **426**, 381

Intracerebral transplantation

Mouse; Oligodendrocyte; Myelination; Cell migration; Shiverer model (Baulac, M.) **420**, 39

Intracerebroventricular

Melatonin; Hibernation; Ground squirrel (Stanton, T.L.) **413**, 350

NaCl; Angiotensin II; Body fluid balance; Operant behavior; Drinking behavior (Weisinger, R.S.) **420**, 135

Prostaglandin E₂; Prostaglandin F_{2 α} ; Sympathetic nervous system; Pressor; Tachycardia; Anaesthetised cat (Rao, T.S.) **435**, 7

Intracortical microstimulation

Cross-correlation analysis; Primate precentral cortex organization; Reaching movement (Kwan, H.C.) **400**, 259

Neonatal cortical lesion; Corticospinal plasticity; Pyramidotomy (Kartje-Tillotson, G.) **415**, 172

Intracortical microstimulation (ICMS)

Motor cortex; Cortical development; Corticospinal; Antidromic (Porter, L.L.) **436**, 136

Intracranial pressure

Subarachnoid hemorrhage; Blood flow; Lipid peroxidation; Vitamin E (Travis, M.A.) **418**, 366

Vasopressin; Oxytocin; Cerebrospinal fluid vasopressin; Blood pressure; Goat (Seckl, J.R.) **423**, 279

Intracranial self-administration

Morphine; Lateral hypothalamus; Mouse (Cazala, P.) **416**, 283

Intraepithelial innervation

Calcitonin gene-related peptide (Byers, M.R.) **419**, 311

Intrahypothalamic

Cimetidine; Serotonin; Prolactin; Luteinizing hormone (LH) (Kertesz, E.) **413**, 10

Intralaminar thalamus

Somatosensory system; Horseradish peroxidase; Axonal transport; Spinothalamic tract (Ma, W.) **414**, 187

Intramembranous particle (IMP)

Filipin; Cholesterol; Membrane fluidity; Axolemma; Myelination; Lipid domain (Fields, R.D.) **404**, 21

Intramural ganglion

Urinary bladder; Tissue culture; Electrophysiology; Autonomic nerve (Pittam, B.S.) **403**, 267

Intrathecal

Pentobarbital; Spinal cord; Nociception; Naloxone; Bicuculline; Picrotoxinin; GABAergic transmission (Stein, C.) **407**, 307

Tail flick; Pentobarbital; Morphine; Naltrexone; Transcutaneous electrical nerve stimulation (TENS); Electroacupuncture (Peets, J.M.) **416**, 301

Intrathecal administration

κ -Agonist; Spinal cord; Rat dorsal horn; κ -Opioid receptor; Antinociception; Analgesia; U50488H; Ethylketocyclazocine; Dynorphin A₁₋₁₃ (Knox, R.J.) **415**, 21

Intrathecal opioid

Opioid receptor; Spinal cord; μ -Opioid; δ -Opioid; Nociception; Analgesia; Rat dorsal horn; Enkephalin (Dickenson, A.H.) **413**, 36

Intrinsic cortical circuitry

Cingulate; Commissural neuron; Associational projection (Sripanidkulchai, K.) **406**, 255

Intrinsic neuron

General cortex; Local circuit neuron; Relay cell; Reptile; Thalamus (Pritz, M.B.) **409**, 146

Gustation; Lateral hypothalamus; Ibotenic acid; Saccharin; Quinine; Rat (Ferssiw, A.) **437**, 142

Invertebrate endocrinology

Adipokinetic hormone (AKH); Red pigment concentrating hormone (RPCH); Neuropeptide; Immunocytochemistry; *Lymnaea*; *Porcellio*; *Lithobius*; *Astacus* (Schooneveld, H.) **406**, 224

Inward rectification

Anomalous rectification; Locus coeruleus; Brain slice (Osmanović, S.S.) **417**, 161

[¹⁴C]Iodoantipyrine

Regional cerebral blood flow; Quantitative autoradiography; Heroin; Naloxone; Rat (Trusk, T.C.) **406**, 238

Ion

Peripheral nerve; Blood-nerve barrier; Calcium; Regulation; Homeostasis; Blood vessel; Neuropathy; Hypercalcemia; Hypocalcemia; Endoneurium; Magnesium (Rechthand, E.) **406**, 185

Melanocyte-stimulating hormone; Hypothalamus; Perfusion; Radioimmunoassay (Jégou, S.) **413**, 259

Ion current

Pentylentetrazol; *Aplysia* neuron (Hartung, K.) **419**, 55

Ion homeostasis

Astrocyte; Barium; Cell culture; Glial cell (Walz, W.) **412**, 405

Ion specificity

Taste; Rat; Chorda tympani nerve; Single fiber; Anodal current; Ionic taste stimulus (Ninomiya, Y.) **404**, 350

Ion transport

Synaptic transmission; Hippocampal slice; K⁺ undershoot (Roberts Jr., E.L.) **402**, 178

Ca²⁺ transport; Ethanol; Synaptic membrane; Na⁺-Ca²⁺ antiporter; Chronic alcohol (Michaelis, M.L.) **414**, 239

Ion-selective microelectrode

Potassium; Brain ionic homeostasis (Moghaddam, B.) **406**, 337

Ionic channel

Development; Rat brain; Autoradiography (Mourre, C.) **417**, 21

Ionic conductance

Acetylcholine; Cyclic guanosine monophosphate; Protein kinase; Voltage clamp; Cortex (Woody, C.D.) **424**, 193

Ionic current

Rat superior colliculus; Cultured neuron; Glutamate receptor; *N*-Methyl-D-aspartate; Quisqualate; D-Amino-phosphonovaleric acid (Grantyn, R.) **420**, 182

Ionic permeability

Blood-nerve barrier; Endoneurial capillary; Sciatic nerve; Excitability (Weerasuriya, A.) **419**, 188

Ionic taste stimulus

Taste; Rat; Chorda tympani nerve; Single fiber; Ion specificity; Anodal current (Ninomiya, Y.) **404**, 350

Iontophoresis

Respiration; Sleep waking; Glutamate;

Chronic cat (Foutz, A.S.) **404**, 10

Angiotensin II; Angiotensin III; Brain; Electrophysiology; Spontaneously hypertensive rat (Harding, J.W.) **410**, 130

Proglumide; Cholecystokinin; Dopamine; Electrophysiology; Neuromodulation (Chiodo, L.A.) **410**, 205

L-Cysteine-sulphinate; L-Aspartate; *N*-Methyl-D-aspartate; Quisqualate; Kainate; Membrane potential; Caudate; Excitatory amino acid; Cat (Turski, W.A.) **414**, 330

Auditory system; Bird; γ -Aminobutyric acid; Bicuculline (Müller, C.M.) **414**, 376

Angiotensin II; Angiotensin III; Brain; Amastatin; Bestatin; Sar¹-angiotensin II (Harding, J.W.) **424**, 299

Ipsapirone

Glucose utilization; Autoradiography; 2-Deoxyglucose; Serotonin; 5-HT_{1A} receptor; Hippocampus; Rat (Wree, A.) **436**, 283

Ipsilateral retinal afferent

Visual system; Pretectum; Contralateral retinal afferent; Directional selectivity (Sperl, M.) **404**, 332

Irreversible muscarinic acetylcholine antagonist

Cholinergic neurotransmission; Muscarinic acetylcholine receptor; Propylbenzilylcholine mustard (PrBCM); Passive avoidance; Memory deficit; Learning process; Alzheimer's disease (Fukuchi, I.) **400**, 53

Ischemia

Edema; Hyperosmotic agent; Diuresis; U-50488H (Silvia, R.C.) **403**, 52

Protein; Acid-base homeostasis; Brain infarction; Buffer capacity; Acidosis (Kraig, R.P.) **410**, 390

Peripheral nerve; Regional glucose utilization; 2-Deoxyglucose (Sladky, J.T.) **414**, 323

Hippocampus; [³H]2-Deoxyglucose; Light microscope radioautography; Electron microscope radioautography; Rapid freezing technique (Izumiyama, K.) **416**, 175

Spinal cord injury; Head injury; Kappa agonist; Neurological recovery (Hall, E.D.) **435**, 174

Ischemic conduction failure

Hypoxia; Experimental Neuropathy; *p*-Bromophenylacetylurea; Slow axonal transport; Nerve conduction velocity (Nagata, H.) **422**, 319

Ischemic nerve block

Stretch reflex; Long-latency reflex; Human forearm (Hayashi, R.) **403**, 341

Island-Mainland population

Activity; Stress-induced analgesia;

Immobilization; Opioid analgesia; Naloxone; ICI 154, 129; Deer mice; *Peromyscus maniculatus*; Sex; Genetic (Kavaliers, M.) **425**, 49

Islet activating protein (IAP)

Glutamate receptor; Synapse; GTP binding protein; Pertussis toxin; Joro spider toxin (JSTX) (Miwa, A.) **416**, 162

Islet of Langerhans

Guanine nucleotide-binding protein; Islet-activating protein substrate; Signal transduction; Immunohistochemistry (Terashima, T.) **417**, 190

Islet-activating protein (pertussis toxin)

Guanosine triphosphate (GTP)-binding protein; Retina; Species difference; Immunohistochemistry (Terashima, T.) **436**, 384

Islet-activating protein substrate

Guanine nucleotide-binding protein; Islet of Langerhans; Signal transduction; Immunohistochemistry (Terashima, T.) **417**, 190

Isoflurane

Anoxic damage; Anesthetic; Thiopental; Hippocampus; Brain slice; Anoxia (Bendo, A.A.) **403**, 136

Isolated spinal cord

Mammalian; Reflex activity; In vitro central nervous system preparation (Bagust, J.) **411**, 397

Isolation call

Separation distress; Separation anxiety; α_2 -Adrenergic receptor; Squirrel monkey; Clonidine; Yohimbine (Harris, J.C.) **410**, 353

Isoniazid

γ -Aminobutyric acid; Bicuculline; 3-Mercaptopropionic acid; Muscimol; Hypothalamus; Sympathetic nervous system; Heart rate; Blood pressure (DiMicco, J.A.) **402**, 1

Pyridoxine; Huntington's disease; Cerebrospinal fluid amino acid; Cerebrospinal fluid γ -aminobutyric acid (Manyam, B.V.) **408**, 125

Isoprotein

S-100 protein; Brain-specific protein; Kidney; Enzyme immunoassay; Purification (Semba, R.) **401**, 9

Isoproterenol

Catecholamine; Norepinephrine; Parietal cortex; Prostaglandin; Leukotriene (Busija, D.W.) **403**, 243

Clonidine; Apomorphine; Thyrotropin secretion; Yohimbine; Propranolol; Phentolamine; Sulpiride (Jaffer, A.) **404**, 267

Isozyme

Glutamic oxaloacetic transaminase; Glutamate; Immunohistochemistry; Primary sensory neuron; Rat (Inagaki, N.) **402**, 197

Phenylethanolamine
N-methyltransferase; Characterization; Adrenal; Bovine (Wong, D.L.) **410**, 32

Isthmo-optic nucleus

Bird; Visual Wulst; Visual cortex; Centrifugal visual system (Uchiyama, H.) **406**, 322

Itch

Pruritus; Cutaneous receptor; Cowhage; Nociceptor; Mechanoreceptor (Tuckett, R.P.) **413**, 87

Pruritus; Cutaneous receptor; Cowhage; Nociceptor; Electrocutaneous stimulation; Signal averaging (Tuckett, R.P.) **413**, 95

β, β' -Iminodipropionitrile (IDPN)

Neurofilament; Excitation, circling and choreiform head and neck movements (ECC) syndrome; Axonal enlargement; Amine metabolism; Neurotoxin (Morandi, A.) **437**, 69

J

Japanese quail

Sexual behavior; Dihydrotestosterone; Androgen metabolism (Deviche, P.) **421**, 105

Japanese toad

Motoneuron; Accessory nerve; Morphology; Distribution; Cobaltic lysine (Oka, Y.) **400**, 383

Preganglionic parasympathetic neuron; Dorsal motor nucleus; Salivatory nucleus; Morphology; Distribution; Cobaltic lysine (Oka, Y.) **400**, 389

Jaw-opening reflex

Tooth pulp; Periaqueductal gray region; Raphe nucleus (Chung, R.Y.) **403**, 172

Joint afferent

Motor unit; Motoneuron excitability (Baxendale, R.H.) **415**, 353

Joint receptor

Proprioception; Position sense; Muscle receptor; Cutaneous receptor (Ferrell, W.R.) **425**, 369

Joro spider toxin (JSTX)

Glutamate receptor; Synapse; GTP binding protein; Pertussis toxin; Islet activating protein (IAP) (Miwa, A.) **416**, 162

K

Na-K pump

Nerve growth factor; Membrane potential; Skeletal muscle; Culture (Brodie, C.) **435**, 393

K⁺ undershoot

Synaptic transmission; Hippocampal slice; Ion transport (Roberts Jr., E.L.) **402**, 178

K⁺-equilibrium distribution

Lithium; Depolarization; Synaptosome; Cortex slice (Adam-Vizi, V.) **410**, 257

Kainate

Frog spinal motoneuron; Quisqualate; N-methyl-D-aspartate; After-hyperpolarization; Sodium pump (Hackman, J.C.) **407**, 94

L-Cysteine-sulphinate; L-Aspartate; N-Methyl-D-aspartate; Quisqualate; Iontophoresis; Membrane potential; Caudate; Excitatory amino acid; Cat (Turski, W.A.) **414**, 330

Cyclic guanosine monophosphate (cGMP); Excitatory amino acid; N-Methyl-D-aspartate; Quisqualate; Neuronal culture (McCaslin, P.P.) **417**, 380

Kainic acid

Epilepsy; Seizure; Emotion; Interictal behavior; Defence reaction; Aggression; Temporal lobe (Griffith, N.) **400**, 360

Inferior olive; Cerebellar inhibition (Batini, C.) **403**, 186

Behavioral change; Prostanoid formation; Rat hippocampus; Amygdala/pyriform cortex; Parietal cortex (Baran, H.) **404**, 107

Substantia nigra; Superior colliculus; Pulvinar-lateralis posterior complex; Turning behavior (Motles, E.) **405**, 165

Median raphe nucleus; Locomotor activity; Excitatory amino acid; Nucleus centralis superior (Wirtshafter, D.) **408**, 349

Lateral habenula; Stereotypic behavior; Dopamine; Haloperidol; Behavioral hypersensitivity (Carvey, P.M.) **409**, 193

Serotonin; Dorsal raphe; In vivo voltammetry; Dopamine (De Simoni, M.G.) **411**, 81

Retina; Tectum; Ganglion cell; Degeneration; Excitotoxicity; Synapse (Ehrlich, D.) **415**, 342

Terminal degeneration; Tree shrew; Lateral geniculate nucleus; Neurotoxin; Wheat germ agglutinin-horseradish peroxidase (Horn, K.M.) **416**, 187

Calcitonin gene-related peptide;

Substance P; Quinolinic acid; Striatum; Immunohistochemistry; Cat (Sugimoto, T.) **418**, 392

Arylsulfatase; Neuron; Astrocyte; Rat striatum (Kung, M.-P.) **419**, 141

Brain cortex; Neurotoxicity; Pyknosis; Swelling; Calcium; Chloride; Cytoskeleton (Berdichevsky, E.) **423**, 213

Hippocampus; Theophylline; Caffeine; Metrazol; Adenosine receptor; Epilepsy (Ault, B.) **426**, 93

Retina; Ganglion cell; Optic tectum; Trophic factor; Development; Horseradish peroxidase (Tung, N.N.) **435**, 153

Neutral endopeptidase; Opioid receptor; Caudate putamen; Globus pallidus; Substantia nigra; Colchicine; 6-Hydroxydopamine (Waksman, G.) **436**, 205

Kainic acid receptor
Hippocampal mossy fiber; Early hyperthyroidism; Developmental plasticity; Fascia dentata (Represa, A.) **423**, 325

α -Kainic acid
 γ -D-Glutamylaminomethylsulphonic acid; Substantia nigra; Caudate-putamen; Muscle tone; Catalepsy; Turning; Electromyogram; 6-Hydroxydopamine; Ibotenic acid (Turski, L.) **424**, 37

Kappa agonist
Spinal cord injury; Head injury; Ischemia; Neurological recovery (Hall, E.D.) **435**, 174

Kappa-bungarotoxin
Neuronal nicotinic receptor; Autonomic pharmacology; Chick embryo; Ciliary ganglion; Sympathetic ganglion; α -Bungarotoxin (Chiappinelli, V.A.) **402**, 21

200-KDa Neurofilament
Hirano body; Long-term CNS transplant; Peripheral nerve; Cytoskeletal abnormality (Doering, L.C.) **401**, 178

64-KDa protein
Lithium; Phosphorylation; Calmodulin; Protein kinase (Klein, E.) **407**, 312

Ketatorphan
Enkephalin; Dorsal horn; Analgesia; Peptidase inhibitor (Dickenson, A.H.) **408**, 185

Ketamine
Brain injury; Brain ischemia; Anesthetic; Pentobarbital; Survival rate (Shimoji, K.) **408**, 385

Wind-up; Excitatory amino acid; *N*-Methylaspartate; Spinal cord (Davies, S.N.) **424**, 402

Spreading depression; Anoxic depolarization; Slow potential; Rat

(Hernández-Cáceres, J.) **437**, 360

Ketanserin
Serotonin₂ receptor; Serotonin₂ receptor; Serotonin-mediated behavior; 5,7-Dihydroxytryptamine (5,7-DHT); Quantitative autoradiography (Fischette, C.T.) **421**, 263

Kidney
Renal nerve; Adrenergic receptor; Neurotransmitter; Hypertension (Sripanidkulchai, B.) **400**, 91

S-100 protein; Brain-specific protein; Enzyme immunoassay; Purification; Isoprotein (Semba, R.) **401**, 9

Kinase C
Phorbol ester; Intracellular response; Neocortex; Chronic cat (Baranyi, A.) **424**, 396

Kindled epilepsy
Amygdala; Learning; Nucleus parafascicularis; Hypophysectomy; Adrenocorticotrophic hormone (Rogers III, O.L.) **403**, 96

Kindling
Experimental epilepsy; Amygdala; Noradrenaline; Dopamine; Serotonin (Lewis, J.) **403**, 205

Dynorphin; Seizure; Substantia nigra (Bonhaus, D.W.) **405**, 358

Low-frequency stimulation; Epileptogenic focus; Hippocampus (Minabe, Y.) **408**, 286

Epilepsy; Bicuculline methiodide; Caudate-putamen (Cavalheiro, E.A.) **411**, 370

Cysteamine; Myoclonus; Midazolam; Seizure; Long-term inhibition (Cottrell, G.A.) **412**, 161

Epilepsy; Hippocampus; Dentate gyrus; Recurrent inhibition; Long-term potentiation (De Jonge, M.) **412**, 318

Opioid binding; Hippocampus; Autoradiography; Mu opioid peptide; Delta opioid peptide (Crain, B.J.) **412**, 343

Somatostatin; Central nervous system; Brain; Neuropeptide (Pitkänen, A.) **416**, 180

Afterdischarge; Hippocampus; Entorhinal cortex; Cholinergic input; Paroxysmal fast wave; Medial septum; Scopalamine (Leung, L.-W.S.) **419**, 173

Long-term potentiation; Perforant path; Dentate gyrus; Epilepsy (Sutula, T.) **420**, 109

γ -Aminobutyric acid (GABA); Glutamate decarboxylase; γ -Aminobutyric acid receptor binding; Focal epilepsy (Löscher, W.) **420**, 385

Red nucleus; Epilepsy; Cerebellum; Mesencephalic lesion (Paz, C.) **422**, 99

Benzodiazepine; Clonazepam; Substantia nigra; Seizure;

Anticonvulsant (King, P.H.) **423**, 261

Kindling antagonism
Norepinephrine; Neonate; 6-Hydroxydopamine; Brainstem-cerebellum hyperinnervation (Applegate, C.D.) **407**, 212

Kindling development
Substantia nigra; γ -Vinyl γ -aminobutyric acid (GVG); Thermocoagulative lesion; *N*-Methyl-D,L-aspartate (NMDA); Epileptogenesis (Shin, C.) **412**, 311

Kindling: Locus coeruleus
Norepinephrine; Seizure (Bonhaus, D.W.) **407**, 102

Kinematics
Spinal cat; Locomotion; Training; Electromyogram (EMG) (Barbeau, H.) **412**, 84

Kinetic parameter
Neuromuscular junction; Miniature endplate current; Rising phase; Non-linear regression; Estimation (Madsen, B.W.) **402**, 387

Kinsmen substance P
Acetylcholinesterase; Nucleus basalis of Meynert; Immunohistochemistry; Alzheimer's disease; Human brain (Beach, T.G.) **408**, 251

Knife cut
Deoxycorticosterone--salt hypertension; Hypothalamus; Midbrain (Cannata, M.A.) **420**, 295

Korsakoff's disease model
Monoamine; Thiamine deficiency; Cortical distribution (Langlais, P.J.) **421**, 140

Krabbe disease
Globoid cell leukodystrophy; Twitcher Mouse; Cuprizone; Demyelination; Blood-brain barrier (Kondo, A.) **425**, 186

Kynurenate
Suprachiasmatic nucleus; Retinohypothalamic tract; Hypothalamic slice; Excitatory amino acid; Acetylcholine (Cahill, G.M.) **410**, 125

Kynurenic acid
[³H]Glutamate binding; Rat adrenal; Stereo- and structure-selectivity; *N*-methyl-D-aspartic acid; 2-Amino-3-phosphonopropionic acid; Solubilization of binding site (Yoneda, Y.) **406**, 24

Cholecystokinin; γ -Aminobutyric acid; Glutamate; Diazepam; Picrotoxin (Yaksh, T.L.) **406**, 207

Kyotorphin
Met-enkephalin releaser; Ca²⁺ mobilization; Chlorotetracycline (Ueda, H.) **419**, 197

L

L-cell

Nerve growth factor (NGF);
Conditioned medium; Binding protein;
7S NGF (Siminoski, K.) **435**, 273

Lactacidosis

Hyperglycemia; Focal ischemia;
Infarction; Middle cerebral artery; Rat
(Nedergaard, M.) **408**, 79

Lactate

Exercise; Skin afferent; Muscle
afferent; Cardiovascular reflex
(Gregory, J.E.) **404**, 375

Lactation

Brain stimulation-induced aggression;
Hypothalamus; Maternal aggression;
Female; Pregnancy; Wound pattern
(Mos, J.) **404**, 263

Opiate; Pregnancy; Gonadal steroid;
Preoptic area (Hammer Jr., R.P.)
420, 48

Lactic acid

Valproic acid; Anticonvulsant;
Cerebrospinal fluid; Biogenic amine
metabolite; Organic acid transport
(MacMillan, V.) **420**, 268

Lactoseries carbohydrate

Olfactory receptor cell; Vomeronasal
receptor cell; Neuronal subset;
Monoclonal antibody (Mori, K.)
408, 215

Lactotroph

γ -Aminobutyric acid (GABA);
Prolactin; Chloride channel; GABA_A
receptor; Patch clamp (Inenaga, K.)
405, 159

Lamina terminalis

Angiotensin II binding; Human brain;
Receptor; Diencephalon
(McKinley, M.J.) **420**, 375

Norepinephrine; Hypothalamus;
Median preoptic nucleus; Vasopressin;
Supraoptic nucleus; Fluid balance;
 α -Methyl tyrosine (Wilkin, L.D.)
423, 369

Lamina X

Serotonin; Enkephalin; Substance P;
True blue; Hemisection; Dorsal
rhizotomy (Nahin, R.L.) **401**, 292

Laminated structure

Optic tectum; Teleost; Retinofugal
projection; Visual system; Retinotectal
(von Bartheld, C.S.) **420**, 277

Laminin

Regeneration; Growth factor; Central
nervous system; Immunoreactive site
(Zak, N.B.) **408**, 263

Nerve regeneration; Chamber model;
Testosterone; Ganglioside; Catalase
(Müller, H.) **413**, 320

Lamprey

Immunohistochemistry; Spinal cord;
Neuropeptide; Phylogenetic
conservation (Buchanan, J.T.) **408**, 299

Reticulospinal neuron; Motoneuron;
Excitatory postsynaptic potential;
Excitatory amino acid receptor
(Buchanan, J.T.) **408**, 321

Fictive locomotion; Spinal cord; Edge
cell; Sensory feedback (Alford, S.)
409, 139

Spinal cord; Regeneration; Command
neuron (Currie, S.N.) **415**, 337

N-Methyl-D-aspartate receptor; Fictive
locomotion; Voltage clamp;
Impedance; Admittance;
Voltage-dependent conductance;
Excitatory synaptic current
(Moore, L.E.) **419**, 397

Axon reaction; Spinal cord; Interneuron;
Axonal regeneration; Chromatolysis;
Denervation; Spontaneous synaptic
activity (Yin, H.-S.) **421**, 48

LANT-6

Immunocytochemistry; Retina;
Amacrine cell; Ganglion cell;
Biochemistry (Eldred, W.D.) **424**, 361

Large neuron

Alzheimer's disease; Senile dementia;
Neostriatum; Morphometry
(Oyanagi, K.) **411**, 205

Larva

Compensatory eye movement; Central
pattern generator; Tadpole; Frog
(Stehouwer, D.J.) **410**, 264

Larval tiger salamander

Retina; Enkephalin; γ -Aminobutyric
acid; Coexistence; Intracellular
recording; On-Off ganglion cell
(Watt, C.B.) **408**, 258

Latency

Frog tongue; Taste stimulus; Fungiform
papillae; Gustatory neural impulse;
Receptor potential (Sato, T.) **424**, 333

Latency jump

Substantia nigra, pars compacta;
Paraventricular nucleus; Axon
branching; Pituitary stalk; Antidromic
(Klemfuss, H.) **409**, 197

Latency/intensity function

Single unit activity; Superior olivary
complex; Auditory brainstem response
(ABR); Timing of unit discharge;
Timing of the ABR component
(Kano, Y.) **419**, 262

Lateral cervical nucleus

Cat; Neuroanatomic tracing;
Ultrastructure; Spinal afference
(Svensson, B.A.) **423**, 229

Sensitization; Thermal stimulation;
Spinocervicothalamic pathway;
Nociception (Kajander, K.C.) **436**, 390

Lateral dorsal tegmental nucleus

Horseradish peroxidase; Choline

acetyltransferase;
Immunocytochemistry; Basal ganglion
(Beninato, M.) **412**, 169

Lateral geniculate nucleus

Ponto-geniculo-occipital (PGO); Sleep;
Unit activity; Development; Cat
(Davenne, D.) **409**, 1

Optic tract; Superior colliculus; Retina;
Dipeptide; Immunohistochemistry;
High-performance liquid
chromatography (Anderson, K.J.)
411, 172

Acetylcholine; Nicotine; Cat visual
cortex; Receptor; Binding site
(Prusky, G.T.) **412**, 131

Monocular deprivation; Visual cortex;
Amblyopia; Visual development;
Visual pathway (Christen, W.G.)
415, 233

Kainic acid; Terminal degeneration;
Tree shrew; Neurotoxin; Wheat germ
agglutinin-horseradish peroxidase
(Horn, K.M.) **416**, 187

Retina; Visual cortex; Pulvinar;
Immunohistochemistry; Peptide; Cat
(Bliss Tieman, S.) **420**, 188

Transplantation; Visual cortex; Slice
preparation; Current source-density
analysis; Intracellular analysis
(Hamasaki, T.) **422**, 172

Lateral habenula

Kainic acid; Stereotypic behavior;
Dopamine; Haloperidol; Behavioral
hypersensitivity (Carvey, P.M.)
409, 193

Lateral horn cell

Glycine; Inhibitory transmitter; Spinal
cord (Mo, N.) **400**, 139

Lateral hypothalamic area

Lateral vestibular nucleus; Polysynaptic
connection; Rat (Katafuchi, T.) **400**, 62

Corticotropin-releasing factor; Zona
incerta; Afferents to the inferior
colliculus; Combination of HRP and
immunohistochemistry (Sakanaka, M.)
414, 68

Creatine kinase (CK); Neuron; Zona
incerta; Immunohistochemistry; Mouse
brain (Ikeda, K.) **435**, 348

Lateral hypothalamus

Locomotion; Midbrain
(Sinnamon, H.M.) **402**, 78

Spinal α_2 -adrenoceptor;
Stimulation-produced antinociception;
Tail-flick reflex; Descending inhibition
(Aimone, L.D.) **403**, 290

Single neuron activity; Monkey;
Electrophoresis; Dopamine;
Noradrenaline; Operant feeding; Cue
response; Reward (Nishino, H.)
405, 56

Ventromedial hypothalamus; Zucker
rat; Brown adipose tissue; Sympathetic

efferent; Supraoptic nucleus;
Dorsomedial nucleus (Holt, S.J.)
405, 227

Self-stimulation; Forebrain ablation;
Brain stimulation reward (Colle, L.M.)
407, 285

Corticotropin releasing factor; Gastric
acid; Paraventricular nucleus;
Ventromedial nucleus;
Caudate-putamen (Gunion, M.W.)
411, 156

Intracranial self-administration;
Morphine; Mouse (Cazala, P.) **416**, 283

Gastrin; Hypothalamus; Ventromedial
nucleus; Brain; Microinfusion; Gastric
secretion; Caudate-putamen
(Gunion, M.W.) **422**, 118

Dynorphin; Feeding; Opioid
(Carr, K.D.) **422**, 384

Opioid; Brain stimulation reward;
Ventral tegmental area (Jenck, F.)
423, 34

Opioid; Feeding; Ventral tegmental
area; Periaqueductal gray (Jenck, F.)
423, 39

Self-stimulation; Preoptic area;
Reinforcement; Lesion; Lateralized
effect (Huston, J.P.) **436**, 1

Gustation; Intrinsic neuron; Ibotenic
acid; Saccharin; Quinine; Rat
(Ferssiw, A.) **437**, 142

Lateral inhibition

Glycine; Tetrodotoxin (TTX)
(Barnes, S.) **406**, 233

Olfactory bulb; Olfactory processing;
Mitral cell; Olfactory bulb glomerulus;
Periglomerular cell (Wilson, D.A.)
417, 175

Lateral lemniscus

Pigeon; Auditory thalamus; Wheat
germ agglutinin-horseradish peroxidase
(WGA-HRP) (Wild, J.M.) **408**, 303

Area octavolateralis; Horseradish
peroxidase; In vitro; Lateral line;
Urodele amphibian (Gonzalez, A.)
423, 338

Lateral line

Area octavolateralis; Horseradish
peroxidase; In vitro; Lateral lemniscus;
Urodele amphibian (Gonzalez, A.)
423, 338

Lateral line organ

Calcitonin gene-related peptide; Hair
cell; Neurotransmitter; Efferent nerve
(Adams, J.C.) **419**, 347

Lateral longissimus

Midbrain central gray; Lateral
vestibular nucleus; Electromyography;
Electrical stimulation; Medial
longissimus; Axial muscle
(Cottingham, S.L.) **421**, 397

Lateral olfactory tract

Glutamate; Immunocytochemistry;

Mitral cell;
N-Acetyl-aspartyl-glutamate;
Neuropeptide; Olfactory bulb
(Blakely, R.D.) **402**, 373

Lateral olivocochlear system

Met-enkephalin; Noise stimulus;
Radioimmunoassay; Cochlea; Guinea
pig (Eybalin, M.) **418**, 189

Enkephalin; Morphine; Opioid
peptide; Adenylate cyclase; Cochlea;
Guinea pig (Eybalin, M.) **421**, 336

Lateral rectus

Fatigue; Motor unit; Retractor bulbi;
Split lateral rectus-retractor bulbi;
Abducens (Gurahian, S.M.) **415**, 281

Lateral rectus muscle

Neuromuscular; Visuomotor; Skeletal
muscle; Motoneuron degeneration
(LaVail, J.H.) **404**, 127

Lateral reticular nucleus

Locus coeruleus/subcoeruleus;
Stimulation-produced antinociception;
Descending inhibition; Norepinephrine
depletion; 6-Hydroxydopamine
(6-OHDA); Supersensitivity;
 α_2 -Adrenoceptor up-regulation
(Janss, A.J.) **400**, 40

Stimulation-produced antinociception;
Arterial pressure; Vascular resistance;
Heart rate; Glutamate microinjection
(Janss, A.J.) **405**, 140

Periaqueductal gray; Nucleus raphe
magnus; Spontaneous activity;
Noxious-evoked activity; Excitation;
Inhibition (Sotgiu, M.L.) **414**, 219

Lateral septal nucleus

N-Acetyl-aspartylglutamate; Fimbria;
Microiontophoresis; In vitro
autoradiography; Receptor (Joëls, M.)
403, 192

Lateral septum

Recovery of function; Dopamine;
Ventromedial hypothalamic nucleus;
Defensive attack; Gating mechanism
(Maeda, H.) **407**, 381

Serotonin; In vitro intracellular
recording; 5-HT_{1a} agonist (Joëls, M.)
417, 99

Accumbens nucleus; Dopamine;
Electron microscopy; γ -Aminobutyric
acid; Immunocytochemistry; Rat
(Onténiente, B.) **421**, 391

Synaptic plasticity; Synaptogenesis;
Estrogen; Adult rat (Miyakawa, M.)
436, 184

Lateral superior olive

Posteroventral cochlear nucleus;
Auditory system; Guinea pig;
Phaseolus vulgaris
leucoagglutinin(PHA-L)
(Thompson, A.M.) **421**, 382

Lateral vestibular nucleus

Lateral hypothalamic area;
Polysynaptic connection; Rat
(Katafuchi, T.) **400**, 62

Midbrain central gray;
Electromyography; Electrical
stimulation; Lateral longissimus;
Medial longissimus; Axial muscle
(Cottingham, S.L.) **421**, 397

Laterality

Asymmetry; Basal ganglia; Circling;
Dopamine; Hemispheric dominance;
Striatum (Bracha, H.S.) **411**, 231

Lateralization

Nucleus accumbens; Activity;
Behavior; Asymmetry (Kubos, K.L.)
401, 147

Visual system; Tectal commissure;
Commissurotomy; Pigeon
(Güntürkün, O.) **408**, 1

Corpus callosum; Inbred mouse
(Ward, R.) **424**, 84

Rotation; Amphetamine;
6-Hydroxydopamine; Dopamine;
Serotonin; Striatum (Shapiro, R.M.)
426, 323

Lateralized effect

Self-stimulation; Preoptic area; Lateral
hypothalamus; Reinforcement; Lesion
(Huston, J.P.) **436**, 1

Lathyrus

β -N-Oxalylamino-L-alanine (BOAA);
 β -N-methylamino-L-alanine (BMAA);
Cycas; Excitotoxin (Nunn, P.B.)
410, 375

Layer V pyramidal neuron

Somatosensory cortex; Pyramidal tract
neuron; Intracellular horseradish
peroxidase; Cat (Yamamoto, T.)
437, 369

LD₅₀

Taste; Sensory coding; Toxicity;
Nucleus tractus solitarius;
Electrophysiology; Multidimensional
scaling (Scott, T.R.) **414**, 197

Learned alternation

Ganglioside; Sprouting; Behavioral
recovery; Entorhinal cortex;
Hippocampus (Ramirez, J.J.) **414**, 85

Learned helplessness

Hippocampus; Cerebral cortex;
Noradrenergic innervation;
6-Hydroxydopamine; Antidepressant
drug; Escape failure; Rat (Soubrie, P.)
437, 323

Learning

Classical conditioning; Eyelid response;
Neural plasticity; Cerebellum;
Brainstem; Lesion; Rabbit
(Mauk, M.D.) **403**, 89

Amygdala; Kindled epilepsy; Nucleus
parafascicularis; Hypophysectomy;
Adrenocorticotrophic hormone (Rogers
III, O.L.) **403**, 96

Protease inhibitor; Leupeptin;
Memory; Chick; Conditioned
avoidance (Davis, J.L.) **406**, 10

Midbrain reticular stimulation;

Cerebellum; Flocculus; Vestibular nucleus; 2-Deoxyglucose (Gonzalez-Lima, F.) **412**, 275

Neuron; Glia; Bouton; Dendrite; Capillary; Mitochondria; Rat; Plasticity; Memory (Sirevaag, A.M.) **424**, 320

Hippocampus; Sleep; Long-term synaptic enhancement; Long-term potentiation (LTP); Behavioral state; Field potential; Memory (Leonard, B.J.) **425**, 174

Radial-maze; Hippocampus; Mossy fiber; Mouse (Crusio, W.E.) **425**, 182

Learning and memory

Anterior cingulate cortex; Posterior cingulate cortex; Hippocampus; Unit activity; Lesion (Gabriel, M.) **409**, 151

AF64A; Cholinergic neurotoxin; Working memory; Acetylcholine; Hippocampus (Chrobak, J.J.) **414**, 15

Locus coeruleus; Amphetamine; Epinephrine; Catecholamine (Holdefer, R.N.) **417**, 108

Basal forebrain; Medial septal nucleus; Cholinergic system; Passive avoidance task; Morris water task; Radial maze task; Animal model for dementia (Miyamoto, M.) **419**, 19

Learning process

Cholinergic neurotransmission; Muscarinic acetylcholine receptor; Irreversible muscarinic acetylcholine antagonist; Propylbenzylcholine mustard (PrBCM); Passive avoidance; Memory deficit; Alzheimer's disease (Fukuchi, I.) **400**, 53

Lectin

Biotin-avidin; Blotting; Brain tumor; Glycoprotein; Human (Davidsson, P.) **412**, 254

Blood-brain barrier; Glycoconjugate; Cerebral endothelium; Cultured cell; Protein blot (Fatchi, M.I.) **415**, 30

Glycoprotein; Olfactory cilia; Chemosensory receptor; Western blotting (Kalinski, D.L.) **418**, 34

Leech

Surface glycoprotein; Axon fasciculation; Peripheral nervous system (Peinado, A.) **410**, 335

$I_{(K,Ca)}$; Patch-clamp (Yang, J.) **419**, 324

Leiurus quinquestriatus venom

Rainbow trout brain synaptosome; Voltage-dependent sodium channel; Aconitine; Batrachotoxin; Veratridine; Tetrodotoxin; DDT (Stuart, A.M.) **437**, 77

Lemniscal

Cortex; Parietal cortex; Somatosensory cortex; Ablation; Temperature; Discrimination; Extralemniscal (Porter, L.H.) **412**, 54

Lesion

Classical conditioning; Eyelid response;

Neural plasticity; Cerebellum; Brainstem; Learning; Rabbit (Mauk, M.D.) **403**, 89

N-CAM; D2-protein; Synaptic remodelling; Red nucleus; D1-protein; D3-protein; S-100 (Jørgensen, O.S.) **405**, 39

Cat; Spinal cord; Monoamine; Neurotransmitter (Casey, K.L.) **408**, 377

Anterior cingulate cortex; Posterior cingulate cortex; Learning and memory; Hippocampus; Unit activity (Gabriel, M.) **409**, 151

Terminal nerve; Mating behavior; Testosterone; Luteinizing hormone-releasing hormone; Male hamster (Wirsig, C.R.) **417**, 293

Epilepsy; Gerbil; Hippocampus; Perforant path; Fornix (Ribak, C.E.) **418**, 146

Synaptic reorganization; Medial amygdaloid nucleus; Accessory olfactory bulb; Electron microscopy; Rat (Ichikawa, M.) **420**, 243

Synaptic reorganization; Medial amygdaloid nucleus; Bed nucleus of stria terminalis; Accessory olfactory bulb; Electron microscopy; Degenerating synapse; Rat (Ichikawa, M.) **420**, 253

Circling behavior; Honey bee; γ -Aminobutyric acid; Acetylcholine; Muscimol; Picrotoxin; Flaxedil; Nicotine (Michelsen, D.B.) **421**, 14

Transplant; Neural graft; Obesity; Ventromedial hypothalamus; Hyperphagia; Feeding; Consummatory behavior (Mickley, G.A.) **424**, 239

Self-stimulation; Preoptic area; Lateral hypothalamus; Reinforcement; Lateralized effect (Huston, J.P.) **436**, 1

Leu-enkephalin

Sympathetic preganglionic axon; Neuropeptide; Neuropeptide depletion; Neurotensin; Sympathetic cardioacceleration; Non-cholinergic ganglionic transmission (Bachoo, M.) **400**, 377

Mammillothalamic tract; Immunocytochemistry; Rat; Projection (Fujii, S.) **401**, 1 Acetylcholine; γ -Aminobutyric acid (Gysling, K.) **407**, 110

Abducens nucleus; Choline acetyltransferase; Olivocochlear bundle; Periolivary nucleus; Superior olivary complex; Vestibular efferent neuron (Carpenter, M.B.) **408**, 275

Met-enkephalin; Substance P; Cholecystokinin; Dopamine; Postmortem; Human brain; Progressive supranuclear palsy (Taquet, H.) **411**, 178

Transforming growth factor- α ;

Fluoro-Gold; Opioid peptide; Met-enkephalin-Arg-Gly-Leu (MERGL) peptide; Co-localization; Interpeduncular nucleus; Raphe nucleus (Code, R.A.) **421**, 401

Dynorphin; β -Endorphin; Brain injury; Trauma; Radioimmunoassay (McIntosh, T.K.) **425**, 225

Cholecystokinin; Caudatoputamen; Dopamine; Cerebral cortex;

Leucine

Glia; Neuron; Glial-neuronal interaction; Proline; Axonal transport (Berkley, K.J.) **414**, 49

[³H]Leucine

[³H]Proline; Protein synthesis; Differential labeling; Cat brain (Elam, J.S.) **413**, 129

[³H]Leucine autoradiography

Midbrain central gray; Affective defense behavior; Quiet biting attack behavior; 2-Deoxy-[¹⁴C]glucose autoradiography (Shaikh, M.B.) **437**, 9

Leukotriene

Catecholamine; Norepinephrine; Isoproterenol; Parietal cortex; Prostaglandin (Busija, D.W.) **403**, 243

Luteinizing hormone-releasing hormone; Somatostatin; FPL-55712; Median eminence (Gerozissis, K.) **416**, 54

Leukotriene B₄

Hyperalgesia; Nociception; Bradykinin; Norepinephrine; Prostaglandin E₂ (Taiwo, Y.O.) **423**, 333

Leukotriene production

Astrocyte; Calcium ionophore A23187; 12-O-Tetradecanoylphorbol 13-acetate (TPA); Immunoinflammatory response; Brain edema (Hartung, H.-P.) **435**, 367

Leumorphin

Lordosis; Prolactin; Ventromedial hypothalamus; Midbrain central gray (Sakuma, Y.) **407**, 401

Leupeptin

Protease inhibitor; Memory; Learning; Chick; Conditioned avoidance (Davis, J.L.) **406**, 10

Spinal cord injury; Neurofilament; Protease inhibitor; E-64; Morphometry; Fink-Heimer method (Iwasaki, Y.) **406**, 99

Light

Retina; Dopamine; Dihydroxyphenylalanine (Brainard, G.C.) **424**, 199

Light adaptation

Aspartate; Dopamine; γ -Aminobutyric acid; Acetylcholine; Retina; Visual pathway; Dark adaptation

(Chentanez, T.) **424**, 115

Light intensity

Retinomotor movement; Cone; Melatonin (Pierce, M.E.) **405**, 400

Light microscope radioautography

Ischemia; Hippocampus; [3 H]2-Deoxyglucose; Electron microscope radioautography; Rapid freezing technique (Izumiya, K.) **416**, 175

Light microscopy

Glutamic acid decarboxylase; Glutamine synthetase; Electron microscopy; γ -Aminobutyric acid (GABA); Area postrema; Immunocytochemistry; Cat (D'Amelio, F.E.) **410**, 232

Histaminergic innervation; Histidine decarboxylase-like immunoreactivity; Mesencephalic nucleus of the trigeminal nerve; Electron microscopy; Immunocytochemistry; Rat (Inagaki, N.) **418**, 388

Light transmittance

Carotid body; Hypoxia; Cyanide (Acker, H.) **409**, 380

Light-dark adaptation

Chronic SCH 23390; D₁ dopamine receptor; [3 H]SCH 23390 binding; Dopamine-sensitive adenylate cyclase; Retina (Porceddu, M.L.) **424**, 264

Light-dark cycle

α -Bungarotoxin; Suprachiasmatic nucleus; Circadian rhythm; Receptor autoradiography; Hypothalamus; Acetylcholine (Fuchs, J.L.) **407**, 9

Limb movement

Globus pallidus; Basal Ganglion; Single unit (Mink, J.W.) **417**, 393

Limb muscle

Choline acetyltransferase; Acetylcholinesterase; Aging; Mouse; Diaphragm (Washio, H.) **416**, 69

Limb use

Dopamine; 6-Hydroxydopamine; Transplant; Paw use; Rotation (Dunnett, S.B.) **415**, 63

Limbic system

Dopamine; S(+)-Methylenedioxy-N-n-propylnoraporphine (Campbell, A.) **403**, 393

Cerebral cortex; Cholinesterase; Cingulate gyrus; Non-specific nucleus; Thalamocortical projection (Robertson, R.T.) **404**, 282

Neuroanatomical tracing; *Phaseolus vulgaris*-leucoagglutinin (PHA-L); Double-label immunocytochemistry; Histamine; Histidine decarboxylase; Prefrontal cortex; Hypothalamus (Wouterlood, F.G.) **406**, 330

Bed nucleus of stria terminalis; Corticosterone; Rat (Dunn, J.D.) **407**, 327

Amygdala; Brain nucleus; Dopamine; Turnover; α -Methyltyrosine; Norepinephrine (Kilts, C.D.) **416**, 402

Testosterone; Aromatase; 5 α -Reductase; 5 β -Reductase; Hypothalamus; Quail (Schumacher, M.) **422**, 137

Substance P; Substance K; Tachykinin; Hippocampus; Neuropeptide (Shults, C.W.) **426**, 290

Phencyclidine; Deoxyglucose; Glucose utilization; σ -Receptor; Brain imaging (Weissman, A.D.) **435**, 29

Limbic system excitability

Substantia nigra pars reticulata; Dentate granule cell; Population spike; NMDA (N-methyl-D,L-aspartate); Basal ganglia (Shin, C.) **411**, 21

Linear acceleration

Vestibulo-ocular reflex; Optokinetic reflex; Semicircular canal; Otolith; Rabbit; Angular acceleration; Eye movement (Barmack, N.H.) **424**, 89

Linear sweep voltammetry

Pilocarpine; Scopolamine; Methscopolamine (Mueller, K.) **408**, 313

Lingual nerve

Chorda tympani; Denervation; Taste bud; Fungiform papilla; Hamster (Whitehead, M.C.) **405**, 192

Membrane potential dependence; Postsynaptic potential; Cerebral cortex; Inferior alveolar nerve; Hypoglossal motoneuron; Cat (Takata, M.) **426**, 358

Lipid domain

Filipin; Cholesterol; Membrane fluidity; Intramembranous particle (IMP); Axolemma; Myelination (Fields, R.D.) **404**, 21

Lipid droplet

Axonal transport; Retrograde; *Aplysia* (Savage, M.J.) **406**, 215

Lipid peroxidation

Spin trapping; Electron spin resonance; Free radical; Brain ischemia (Tominaga, T.) **402**, 370

Motor nerve; Neuromuscular transmission; Degeneration; Anti-oxidant (Hall, E.D.) **413**, 175

Subarachnoid hemorrhage; Blood flow; Intracranial pressure; Vitamin E (Travis, M.A.) **418**, 366

Lipogenesis

Insulin; Insulin derivative; Insulin receptor; Centrally mediated hypoglycemia; Mouse (Amir, S.) **418**, 152

Lipopolysaccharide

Astrocyte; Interferon- γ ; Apolipoprotein E (Oropeza, R.L.) **410**, 45

Liquor-contacting neuron

Dopamine; Spinal cord; Elasmobranch

(Roberts, B.L.) **437**, 171

Lisuride

Dopamine autoreceptor; A10 neuron; Subchronic treatment (Mereu, G.) **408**, 210

Lithium

Phosphorylation; 64-KDa protein; Calmodulin; Protein kinase (Klein, E.) **407**, 312

Depolarization; Synaptosome; K⁺-equilibrium distribution; Cortex slice (Adam-Vizi, V.) **410**, 257

Acetylcholine receptor; Receptor metabolism; Skeletal muscle; Cation; Phosphoinositide; Calcium (Pestronk, A.) **412**, 302

Cholecystokinin (CCK); Cholecystokinin release; Inositol phospholipid; Caudate-putamen; Cerebral cortex (Gysling, K.) **413**, 365

Lithium chloride

Area postrema; Cholecystokinin; Apomorphine; Oxytocin; Arginine-vasopressin (Carter, D.A.) **435**, 327

Lithobius

Adipokinetic hormone (AKH); Red pigment concentrating hormone (RPCH); Neuropeptide; Immunocytochemistry; Invertebrate endocrinology; *Lymnaea*; *Porcellio*; *Astacus* (Schooneveld, H.) **406**, 224

Liver

Purified insulin receptor; Bovine peripheral nervous system; Phosphorylation; Paleocortex; Superior cervical ganglion; Trigeminal ganglion; Structure; Function (Waldbillig, R.J.) **409**, 215

Lizard

Melatonin; Parietal eye; Pineal; Plasma; Temperature (Firth, B.T.) **404**, 313

Load compensation

Proprioception; Reflex; Freely moving animal; Insect; Chordotonal organ (Zill, S.N.) **417**, 195

Load perturbation

Human; Pattern; Reflex; Synergy (McIlroy, W.E.) **407**, 317

Lobster

Bursting neuron; Oscillation; Potassium current; Stomatogastric ganglion; Central pattern generator (Harris-Warrick, R.M.) **416**, 381

Olfaction; Electrophysiology; Neurotransmitter; Purinergic; Adenosine; Adenosine monophosphate (Derby, C.D.) **421**, 57

Lobulus simplex

Cerebellum; Superior colliculus; Medial accessory olive; Climbing fiber response; Rat (Akaike, T.) **417**, 371

Local cerebral glucose utilization

Nicotine; 2-Deoxyglucose; Nicotine

receptor; Rat brain (Grünwald, F.) **400**, 232

Minor tranquilizer; Meprobamate; Phenobarbital; [$1\text{-}^{14}\text{C}$]2-Deoxyglucose (Ableitner, A.) **403**, 82

Electrical stimulation; Pain suppression system; Parafascicular nucleus; VPL nucleus; Dopaminergic nigrostriatal system (Aiko, Y.) **408**, 47

Local circuit neuron

General cortex; Intrinsic neuron; Relay cell; Reptile; Thalamus (Pritz, M.B.) **409**, 146

Parvalbumin; Ca^{2+} binding protein; Fast spiking neuron; Cholecystokinin; Somatostatin; γ -Aminobutyric acidergic system; Cerebral cortex (Kosaka, T.) **409**, 403

γ -Aminobutyric acid (GABA); Glutamic acid decarboxylase (GAD); Ca^{2+} binding protein; Parvalbumin; Hippocampus; Dentate gyrus; Immunohistochemistry (Kosaka, T.) **419**, 119

Local neuronal circuitry

Aversion; Brain stimulation; Mesencephalon; Periaqueductal gray; Rat; Spike train; Stochastic process; Unit activity (Sandner, G.) **421**, 150

Localization

Cranial motoneuron; Horseradish peroxidase; Amphibian muscle; Prey-catching behavior; Toad (Takei, K.) **410**, 395

Locomotion

Glutamate; Picrotoxin; Preoptic area (Sinnamon, H.M.) **400**, 270

Pontomedullary reticular formation; Reticular formation; Avian locomotion (Steeves, J.D.) **401**, 205

Lateral hypothalamus; Midbrain (Sinnamon, H.M.) **402**, 78

Spinal cat; Training; Kinematics; Electromyogram (EMG) (Barbeau, H.) **412**, 84

Hippocampus; Rhythmic slow-wave activity; Theta rhythm; Diazepam; Acetylcholine (Caudarella, M.) **435**, 202

3(2-Carboxypiperazin-4-yl)-propyl-1-phosphonic acid (CPP); Frontal cortex; Hyperactivity; *N*-Methyl-D-aspartate (O'Neill, K.A.) **435**, 371

Adult chronic spinal cat; Clonidine; Yohimbine; Cutaneous reflex; Noradrenaline (Barbeau, H.) **437**, 83

Locomotor activity

Amphetamine; Dopamine release; Intracerebral dialysis; Microdialysis; Stereotypy; Striatum; Nucleus accumbens (Sharp, T.) **401**, 322

Nucleus accumbens; Neostriatum; Dopamine; *cis*-Flupenthixol; Rat (Ahlenius, S.) **402**, 131

Median raphe nucleus; Kainic acid; Excitatory amino acid; Nucleus centralis superior (Wirtshafter, D.) **408**, 349

Dopamine; Nucleus accumbens; Ventral pallidum; Dorsomedial nucleus of the thalamus; Medial prefrontal cortex; Pedunculopontine nucleus; Apomorphine; Picrotoxin; Behavior (Swerdlow, N.R.) **412**, 233

Cerebellum; Climbing fiber; Mossy fiber; Inferior olivary nucleus; Cyclic guanosine monophosphate (McCaslin, P.P.) **414**, 381

Ventral tegmental area; Nucleus accumbens; Morphine; Enkephalin; μ -Opioid receptor; Sensitization; Dopamine (Vezina, P.) **417**, 51

Grayanotoxin; Central depression; Muscle relaxation; Tetrodotoxin (Ohgaki, T.) **425**, 364

Locus coeruleus

Regeneration; Embryonic transplant; θ -Activity; Electroencephalogram; Unit activity; Hippocampus; Septum; Behavior (Buzsáki, G.) **400**, 334

Deoxycorticosterone acetate (DOCA)-salt hypertension; Epinephrine; Glutamate (Berecek, K.H.) **401**, 303

Vestibular complex; Vestibular nucleus; Deiters' nucleus; Horseradish peroxidase; Brainstem (Fung, S.J.) **401**, 347

Spinal motoneuron; Excitatory postsynaptic potential (EPSP); Input resistance; Membrane excitability; Electrical stimulation; Cat (Fung, S.J.) **402**, 230

Brainstem; Monosynaptic reflex; Renshaw cell; Descending control; Spinal cord; Motoneuron; Inhibition (Fung, S.J.) **402**, 351

Weaver mutant mouse; Substantia nigra; Ventral tegmental area; Tyrosine hydroxylase; Immunocytochemistry (Gupta, M.) **402**, 379

Glycogen; Norepinephrine; Adrenergic receptor; Energy metabolism; Epilepsy (Magistretti, P.J.) **403**, 181

Ventrolateral medulla; Adrenergic neuron; Anterograde neuroanatomical tracing (Guyenet, P.G.) **406**, 171

Central nervous system; Blood pressure; Heart rate; Vasopressin; Glutamate; 6-Hydroxydopamine (Sved, A.F.) **414**, 119

Amphetamine; Learning and memory; Epinephrine; Catecholamine (Holdefer, R.N.) **417**, 108

Anomalous rectification; Inward rectification; Brain slice (Osmanović, S.S.) **417**, 161

Mutant mouse; Adrenergic receptor;

Hyperinnervation (Levitt, P.) **418**, 174

Fasciculus retroflexus; Heterotypic collateral sprouting; Homotypic collateral sprouting; Interpeduncular nucleus; Noradrenaline (Battisti, W.P.) **418**, 287

Octopamine; Noradrenaline; False transmitter; High-performance liquid chromatography (HPLC); Radioenzymatic assay (Hicks, T.P.) **421**, 315

Medial preoptic area stimulation; Norepinephrine; Luteinizing hormone; Luteinizing hormone releasing hormone (Gitler, M.S.) **422**, 1

Ambient heating; Fever; Noradrenergic neuron; Stress (Morilak, D.A.) **422**, 17

Cardiovascular system; Noradrenergic neuron; Stress (Morilak, D.A.) **422**, 24

Blood glucose; Hypoglycemia; Insulin; Noradrenergic neuron; Stress (Morilak, D.A.) **422**, 32

Morphine; Presynaptic opiate receptor; Purkinje cell; Norepinephrine; γ -Aminobutyric acid; Inhibition (Moises, H.C.) **423**, 149

Arterial pressure; Blood volume; Body weight; Brainstem; Dorsal rostral pons (Ward, D.G.) **423**, 373

Ventrolateral medulla; Antidromic activation; Norepinephrine; Nucleus paragigantocellularis (Ennis, M.) **425**, 275

G protein; Guanosine 5'-triphosphate (GTP); Guanosine-5'-O-(3-thiotriphosphate) ($\text{GTP}_{\gamma}\text{S}$); Hyperpolarization; Morphine; Pertussis toxin (Wang, Y.-Y.) **436**, 396

Phaseolus vulgaris leucoagglutinin (PHA-L); Spinal cord; Substantia gelatinosa; Noradrenergic axon (Fritschy, J.-M.) **437**, 176

Medial preoptic area stimulation; Norepinephrine; Luteinizing hormone-releasing hormone; Luteinizing hormone; α -Methyl-*p*-tyrosine; Phenoxybenzamine; Propranolol (Gitler, M.S.) **437**, 332

Locus coeruleus lesion

Noradrenaline; 6-Hydroxydopamine; Medullary A₁ lesion; Dorsal bundle lesion; Morphine analgesia; Tail flick test; Hot plate test; Pressure test (Sawynok, J.) **419**, 156

Locus coeruleus/subcoeruleus

Lateral reticular nucleus; Stimulation-produced antinociception; Descending inhibition; Norepinephrine depletion; 6-Hydroxydopamine (6-OHDA); Supersensitivity; α_2 -Adrenoceptor up-regulation (Janss, A.J.) **400**, 40

Locust

γ -Aminobutyric acid (GABA); Benzodiazepine; Insect; Barbiturate; Neuron; Neuronal modulation (Lees, G.) **401**, 267

Choline acetyltransferase; Immunohistochemistry; Sensory neuron; Acetylcholine (Lutz, E.M.) **407**, 173

Neurosecretion; Corpus cardiacum; Adipokinetic hormone; Octopamine; Cyclic adenosine monophosphate; Calcium (Pannabecker, T.) **423**, 13

Long Sleep mouse

Chronic ethanol; Short Sleep mouse; γ -Aminobutyric acid (GABA); Basket cell; Dentate fascia (Scheetz, A.J.) **403**, 151

Ethanol; Hippocampus; Stratum oriens; Short-sleep mouse; Dendritic spine (Scheetz, A.J.) **409**, 329

Long-latency reflex

Stretch reflex; Ischemic nerve block; Human forearm (Hayashi, R.) **403**, 341

Long-term CNS transplant

Hirano body; 200-KDa Neurofilament; Peripheral nerve; Cytoskeletal abnormality (Doering, L.C.) **401**, 178

Long-term depression

Long-term potentiation; Perforant path; Dentate area; Tetanization frequency; Spreading depression (Bramham, C.R.) **405**, 100

Long-term inhibition

Cysteamine; Kindling; Myoclonus; Midazolam; Seizure (Cottrell, G.A.) **412**, 161

Long-term potentiation

Perforant path; Dentate gyrus; Excitatory postsynaptic potential (EPSP); Population spike; Feed-forward inhibition (Kairiss, E.W.) **401**, 87

Synaptic vesicle; Hippocampus; Dendritic spine; Presynaptic; Stereology (Applegate, M.D.) **401**, 401

Long-term depression; Perforant path; Dentate area; Tetanization frequency; Spreading depression (Bramham, C.R.) **405**, 100

Amphetamine; Long-term treatment; Evoked response; Hippocampus (Morimoto, K.) **407**, 137

Epilepsy; Kindling; Hippocampus; Dentate gyrus; Recurrent inhibition (De Jonge, M.) **412**, 318

Memory; Olfactory system; Synaptic plasticity (Roman, F.) **418**, 221

Hippocampus; Interneuron (Taube, J.S.) **419**, 32

Kindling; Perforant path; Dentate gyrus; Epilepsy (Sutula, T.) **420**, 109

Facilitation; Potentiation; Caffeine; Excitatory postsynaptic potential (Lee, W.-L.) **426**, 250

Hippocampus; Theta rhythm; Chronic recording (Staubli, U.) **435**, 227

Hippocampus; Sharp wave; Population burst; Memory; Model (Buzsáki, G.) **435**, 331

Hippocampal slice; Electro-convulsive treatment (Anwyl, R.) **435**, 377

Long-term potentiation (LTP)

Hippocampus; Sleep; Long-term synaptic enhancement; Behavioral state; Field potential; Learning; Memory (Leonard, B.J.) **425**, 174

Long-term synaptic enhancement

Hippocampus; Sleep; Long-term potentiation (LTP); Behavioral state; Field potential; Learning; Memory (Leonard, B.J.) **425**, 174

Long-term treatment

Amphetamine; Evoked response; Long-term potentiation; Hippocampus (Morimoto, K.) **407**, 137

Long-Evans rat

Medial terminal nucleus; Retinal slip; [^{14}C]2-Deoxyglucose (Biral, G.P.) **412**, 43

Lordosis

Spinal cord; Transection; Pudendal nerve; Evoked response; Supraspinal control; Cutaneous reflex (Cohen, M.S.) **401**, 103

Leumorphin; Prolactin; Ventromedial hypothalamus; Midbrain central gray (Sakuma, Y.) **407**, 401

Female hamster; Dual estradiol implant; Bilateral estradiol implant; Agonistic behavior; Scent-marking behavior; Medial preoptic area; Ventromedial hypothalamus (Takahashi, L.K.) **425**, 337

5,7-Dihydroxytryptamine; Estrogen receptor; Hypothalamus; Progesterin receptor; Serotonin (Luine, V.N.) **426**, 47

Lordosis behavior

Reticular formation; Pudendal nerve; Back muscle (Cohen, M.S.) **405**, 155

Low-frequency stimulation

Kindling; Epileptogenic focus; Hippocampus (Minabe, Y.) **408**, 286

Lower esophageal sphincter

Sensory nerve fiber; Sensory receptor; Vagus nerve; Wheat germ agglutinin-horseradish peroxidase; Axonal anterograde transport; Cat (Clerc, N.) **424**, 216

 ^{125}I -LSD binding site

Iminodipropionitrile; ECC-syndrome; 5-HT-2 receptor; Frontal cortex; Striatum; Nucleus accumbens; Autoradiography (Cadet, J.L.) **437**, 383

LTW-4

Mouse; Protein polymorphism; Two-dimensional electrophoresis; Ethanol acceptance; Pharmacogenetics; Inbred strain; Recombinant inbred strain; Alcohol (Goldman, D.) **420**, 220

Lucifer yellow

Theta genesis; Intracellular theta; Hippocampal pyramid; Slow spike; Spike burst (Núñez, A.) **416**, 289

Ciliary ganglion; Chick ciliary ganglion; Presynaptic nerve terminal; Calyx synapse; Synapse structure (Stanley, E.F.) **421**, 367

Lumbosacral plexus

Motor neuron pool; Retrograde labeling; Reflex (Ungar-Sargon, J.) **407**, 117

Lung

Peripheral benzodiazepine binding site; [^3H]PK 11195; Ontogenetic development; Brain; Heart (Fares, F.) **408**, 381

Parasympathetic; Neurotrophic; Ciliary; ChAT (Wallace, T.L.) **411**, 351

Luteinizing hormone

Brain-gut peptide; Secretin; Vasoactive intestinal peptide; Peptide histidine isoleucine amide; Preoptic area; Prolactin (Kimura, F.) **410**, 315

Medial preoptic area; Ventral noradrenergic tract; Testosterone; Naloxone; Androgenization; Sexual differentiation; Rat (Grossmann, R.) **415**, 205

Opioid peptide; Pulsatile; Estradiol; Progesterone; Naloxone; Morphine (Babu, G.N.) **416**, 235

Locus coeruleus; Medial preoptic area stimulation; Norepinephrine; Luteinizing hormone releasing hormone (Gitler, M.S.) **422**, 1

Brain graft; Hypogonadal mouse; Preoptic area; Reflex ovulation; Persistent estrus (Gibson, M.J.) **424**, 133

Locus coeruleus; Medial preoptic area stimulation; Norepinephrine; Luteinizing hormone-releasing hormone; α -Methyl-*p*-tyrosine; Phenoxybenzamine; Propranolol (Gitler, M.S.) **437**, 332

Luteinizing hormone (LH)

Intrahypothalamic; Cimetidine; Serotonin; Prolactin (Kertesz, E.) **413**, 10

Luteinizing hormone (LH) surge

Monoamine; High-performance liquid chromatography (HPLC); Electrochemical detection; Medial basal hypothalamus; Estradiol; 4-Hydroxy-3-methoxyphenyl-ethyleneglycol (MHPG) (Osterburg, H.H.) **409**, 31

p-Chlorophenylalanine (PCPA);

Serotonin (5-HT);
5-Hydroxyindoleacetic acid (5-HIAA);
Catecholamine turnover;
Noradrenaline; Dopamine; Estrogen
(Burri, R.) **416**, 267

Luteinizing hormone releasing hormone

Locus coeruleus; Medial preoptic area stimulation; Norepinephrine;
Luteinizing hormone (Gitler, M.S.) **422**, 1

Luteinizing hormone releasing hormone immunocytochemistry

Terminal nerve; Teleost; Horseradish peroxidase histochemistry
(Grober, M.S.) **436**, 148

Luteinizing hormone-releasing hormone

Leukotriene; Somatostatin; FPL-55712;
Median eminence (Gerozissis, K.) **416**, 54

Terminal nerve; Lesion; Mating behavior; Testosterone; Male hamster
(Wirsig, C.R.) **417**, 293

Locus coeruleus; Medial preoptic area stimulation; Norepinephrine;
Luteinizing hormone;
 α -Methyl-*p*-tyrosine;
Phenoxybenzamine; Propranolol
(Gitler, M.S.) **437**, 332

Luteinizing hormone-releasing hormone (LH-RH)

Immunocytochemistry; Median eminence; Histamine (Berkenbosch, F.) **405**, 353

Pituitary; Bat; Ferret; Human; High performance liquid chromatography (HPLC) (Anthony, E.L.P.) **424**, 258

Pregnanolone; Hypothalamus;
Superfusion; Push-pull perfusion; Rat
(Park, O.-K.) **437**, 245

LY171555 (Quinpirole)

Metoclopramide; Dopaminergic System Activity; Striatum;
Desoxycorticosterone acetate (DOCA)/NaCl-hypertensive rat; In vivo push-pull perfusion;
High-performance liquid chromatography (HPLC) (Chen, Y.-F.) **400**, 225

Lymnaea

Adipokinetic hormone (AKH); Red pigment concentrating hormone (RPCH); Neuropeptide;
Immunocytochemistry; Invertebrate endocrinology; *Porcellio*; *Lithobius*; *Astacus* (Schooneveld, H.) **406**, 224

Lysed brain synaptosome

Adenosine triphosphate-dependent calcium uptake; Neuronal endoplasmic reticulum; Caffeine; Cyclic adenosine 3',5'-monophosphate
(Mekhail-Ishak, K.) **426**, 62

Lysergic acid diethylamide (LSD)

Recurrent inhibition; Monosynaptic reflex; Raphé nucleus; Medulla

oblongata; Descending control
(Kaneko, T.) **417**, 403

Lysosome

Neurite; Plasticity; Swainsonine;
Storage disease; Enzyme replacement therapy (Walkley, S.U.) **410**, 89

Cerebellar neuron; Granule cell;
Imipramine uptake; Primary culture
(Novelli, A.) **411**, 291

Immunoglobulin; Neuroendocrine cell;
Supraoptic nucleus; Paraventricular nucleus; Immune-nervous system interaction (Meeker, M.L.) **423**, 45

Lysozyme

α -Mannosidase; β -Galactosidase;
Hexosaminidase; β -Glucuronidase;
Acid phosphatase; β -Glucosidase;
Pineal; Retina; Rhythm
(Vaughan, M.K.) **417**, 321

M

Met-enkephalin-Arg-Gly-Leu (MERGL) peptide

Transforming growth factor- α ;
Fluoro-Gold; Opioid peptide;
Leu-enkephalin peptide;
Co-localization; Interpeduncular nucleus; Raphe nucleus (Code, R.A.) **421**, 401

M-channel

Epinephrine; β -Adrenoceptor;
Depolarization; Voltage-dependent g_K
(Akasu, T.) **405**, 375

M-current

Tachykinin; Avian sympathetic ganglion; Intracellular recording; Slow synaptic potential; Substance P;
Autonomic pharmacology
(Ramirez, O.A.) **414**, 228

M₁ and M₂ muscarinic receptors

Amphetamine rotation; Dopamine;
Acetylcholine (Hagan, J.J.) **410**, 69

M₁ muscarinic receptor

Pirenzepine; Scopolamine;
Representational memory; Tolerance;
T-maze (Messer Jr., W.S.) **407**, 37

M₁- and M₂-receptors

Muscarinic acetylcholine receptor;
Ontogeny; Rat brain; In vitro autoradiography (Miyoshi, R.) **420**, 302

M₁-receptor

Calcium antagonist; Muscarinic receptor; Rat cerebral cortex
(Katayama, S.) **422**, 168

M₂ response

Stretch reflex; Preparation; Voluntary response (Sullivan, S.J.) **412**, 139

MAb 5A10

Retinal bipolar cell; Subpopulation;
Monoclonal antibody; Cell-surface antigen; Frog; Vertebrate (Onoda, N.) **416**, 359

Macromolecule

Neural transplant; Adrenal medulla;
Vascular permeability; Blood-brain barrier; Catecholamine
(Rosenstein, J.M.) **414**, 192

Macrophage

Human brain; Anterograde degeneration; Cholesterol ester crystal; Degenerated myelin; Polarizing microscopy; Tract tracing (Miklossy, J.) **426**, 377

Magnesium

Peripheral nerve; Blood-nerve barrier; Calcium; Regulation; Homeostasis; Blood vessel; Neuropathy;
Hypercalcemia; Hypocalcemia;
Endoneurium; Ion (Rechthand, E.) **406**, 185

Hippocampal slice; Epilepsy; Burst;
N-Methyl-D-aspartate receptor
(Schneiderman, J.H.) **410**, 174

Seizure; Epilepsy; Interictal;
Anticonvulsant; Baclofen; Inhibition
(Swartzwelder, H.S.) **410**, 362

Magnesium ion

[³H]Sulpiride; D₂ Dopamine receptor;
Sodium ion; Temperature; Guanine nucleotide; Ni protein; Ternary complex model (Imafuku, J.) **402**, 331

Excitatory amino acid; Receptor;
N-Methyl-D-aspartate (NMDA); Quisqualate; Purkinje cell; Cerebellum
(Sekiguchi, M.) **437**, 402

Magnetic evoked field

Magnetoencephalography;
Neuromagnetism; Biomagnetism;
Cerebellum; Turtle; Purkinje cell
(Okada, Y.C.) **412**, 151

Magnetoencephalography

Neuromagnetism; Biomagnetism;
Magnetic evoked field; Cerebellum;
Turtle; Purkinje cell (Okada, Y.C.) **412**, 151

Magnocellular basal nucleus

Cortical projection; Horizontal diagonal band; *Phaseolus vulgaris* leucoagglutinin; Anterograde tracing
(Luiten, P.G.M.) **413**, 229

Magnocellular neuron

Capillary density; Paraventricular nucleus; Parvocellular neuron;
Supraoptic nucleus; Pituitary neural lobe; Brattleboro rat (Sposito, N.M.) **403**, 375

Maitotoxin

Calcium channel; Membrane current; Calcium antagonist; Neuroblastoma
(Yoshii, M.) **424**, 119

Male hamster

Terminal nerve; Lesion; Mating

behavior; Testosterone; Luteinizing hormone-releasing hormone (Wirsig, C.R.) **417**, 293

Male mouse

Dopamine-sensitive adenylate cyclase activity; Estradiol; Ovariectomy; Female mouse; Dopamine-stimulation (Tang, L.C.) **405**, 178

Male rat

Corticotropin releasing factor; Naloxone; Third cerebral ventricle; Sexual behaviour (Sirinathsinghi, D.J.S.) **407**, 185

N-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP); Pargyline. MPTP analogue; Third cerebral ventricle; Sexual behavior (Sirinathsinghi, D.J.S.) **407**, 364

Aging; Circadian rhythm; Enriched environment; Morphometry; Suprachiasmatic nucleus; Vasopressin (Roosendaal, B.) **409**, 259

Malformation

Olfactory organ; Prosencephalon; Cyclopia; Amphibian (Magrassi, L.) **412**, 386

Mammal

Ciliary ganglion; Catecholamine; Dopamine; Tyrosine hydroxylase; Immunohistochemistry; Fluorescence histochemistry (Uemura, Y.) **416**, 200

Neuropeptide Y; Neuropeptide Y receptor; Autoradiography; Species difference; Forebrain (Martel, J.-C.) **419**, 403

Mammalian

Isolated spinal cord; Reflex activity; In vitro central nervous system preparation (Bagust, J.) **411**, 397

Mammalian brain

Primate brain; α_1 -Adrenoceptor; Autoradiography; Hippocampus; Olfactory bulb (Palacios, J.M.) **419**, 65

Mammalian neuron

Single channel; Potassium channel; Neonate (Simonneau, M.) **412**, 224

Mammillary body

1-Enkephalin; Dorsal tegmental nucleus; Ventral tegmental nucleus; Fiber connection; Interpeduncular nucleus; Immunocytochemistry; Rat (Yamano, M.) **408**, 22

Central amygdala; Benzodiazepine; Antianxiety action; Conflict behavior; Rat (Kataoka, Y.) **416**, 243

Mammillothalamic tract

Leu-enkephalin; Immunocytochemistry; Rat; Projection (Fujii, S.) **401**, 1

Man

Helium-neon laser light; Peripheral nerve (Wu, W.-H.) **401**, 407

Mannitol

Adriamycin; Blood-brain barrier;

Disruption; Neurotoxicity; Chemotherapy; Rat (Kondo, A.) **412**, 73

Blood-brain barrier; Triethyl tin; Reversibility (Inoue, T.) **414**, 309

α -Mannosidase

β -Galactosidase; Hexosaminidase; β -Glucuronidase; Acid phosphatase; β -Glucosidase; Pineal; Retina; Lysozyme; Rhythm (Vaughan, M.K.) **417**, 321

Map formation

Cerebellum; Synapse elimination; Climbing fiber (Mulle, C.) **421**, 194

Synapse elimination; Cerebellum; Climbing fiber; X-irradiation (Mariani, J.) **421**, 211

Mapping

Rat; Hypothalamus; Grooming; Digging; Circling; Electrical brain stimulation; Discriminant analysis (Lammers, J.H.C.M.) **418**, 1

Marchi staining

Rabbit; Central nervous system (CNS); Myelin sheath; Ranvier's node; Density gradient centrifugation (Corneliusson, O.) **416**, 43

Mass spectrometry

Muramyl peptide; Peptidoglycan; Sleep; Rabbit; Fever (Krueger, J.M.) **403**, 249

Mast cell-degranulating peptide (MCD)

Behavior; Electroencephalography; Binding; Central nervous system; Hippocampus; Seizure; Theta rhythm (Bidard, J.-N.) **418**, 235

Maternal aggression

Brain stimulation-induced aggression; Hypothalamus; Lactation; Female; Pregnancy; Wound pattern (Mos, J.) **404**, 263

Mating behavior

Terminal nerve; Lesion; Testosterone; Luteinizing hormone-releasing hormone; Male hamster (Wirsig, C.R.) **417**, 293

Maudsley rat

Adenosine receptor; Brain; Autoradiography; Molecular layer (Marangos, P.J.) **421**, 69

Mauthner cell

Segregated synaptic input; Visual input; Startle response; Mauthner cell ventral dendrite (Zottoli, S.J.) **401**, 113

Somatosensory input; Startle reflex; Goldfish; Dendritic integration (Chang, Y.T.) **417**, 205

Mauthner cell ventral dendrite

Mauthner cell; Segregated synaptic input; Visual input; Startle response (Zottoli, S.J.) **401**, 113

Maximal electroshock seizure

Pituitary; Adrenal; Endogenous opioid;

Anticonvulsant (Long, J.B.) **402**, 155

Mechanism of biological action

2,4-Dihydroxyphenylacetic acid; Spider toxin; Glutamate binding activity; Effect of ferric ion (Pan-Hou, H.) **418**, 198

Mechanoreceptor

Itch; Pruritus; Cutaneous receptor; Cowhage; Nociceptor (Tuckett, R.P.) **413**, 87

Medial accessory olive

Cerebellum; Superior colliculus; Climbing fiber response; Lobulus simplex; Rat (Akaike, T.) **417**, 371

Medial amygdaloid nucleus

Synaptic reorganization; Lesion; Accessory olfactory bulb; Electron microscopy; Rat (Ichikawa, M.) **420**, 243

Synaptic reorganization; Lesion; Bed nucleus of stria terminalis; Accessory olfactory bulb; Electron microscopy; Degenerating synapse; Rat (Ichikawa, M.) **420**, 253

Medial basal hypothalamus

Growth hormone; Preoptic/anterior hypothalamic area; Serotonin (Willoughby, J.O.) **404**, 319

Melatonin; 5-Methoxytryptamine; Methoxyindole; Arachidonic acid metabolism; Prostaglandin; Thromboxane; Pineal gland (Franchi, A.M.) **405**, 384

Monoamine; High-performance liquid chromatography (HPLC); Electrochemical detection; Luteinizing hormone (LH) surge; Estradiol; 4-Hydroxy-3-methoxyphenyl-ethyleneglycol (MHPG) (Osterburg, H.H.) **409**, 31

Serotonin; Midbrain; Pons; Immunohistochemistry; Fast blue; Fluoro-gold (Willoughby, J.O.) **418**, 170

Nitrous oxide; β -Endorphin; α -Melanocyte stimulating hormone; Adrenocorticotrophic hormone; Periaqueductal gray (Zuniga, J.R.) **420**, 57

Nitrous oxide; β -Endorphin; α -Melanocyte stimulating hormone; Cytodex beads; In vitro superfusion (Zuniga, J.R.) **420**, 66

Medial forebrain bundle

Antidromic activation; Dopaminergic neuron; Neostriatum; In vivo voltammetry; Unit activity (Kuh, W.G.) **418**, 122

Medial geniculate

Auditory cortex; Bradycardia; Corticothalamic pathway; Differential Pavlovian conditioning; Rabbit; Response inhibition (Jarrell, T.W.) **412**, 285

Medial habenula

Acetylcholine; Choline

acetyltransferase; Interpeduncular nucleus; Fasciculus retroflexus; Cytochrome oxidase; Plasticity (Eckenrode, T.C.) **418**, 273

Medial longissimus

Midbrain central gray; Lateral vestibular nucleus; Electromyography; Electrical stimulation; Lateral longissimus; Axial muscle (Cottingham, S.L.) **421**, 397

Medial pons

Electrical stimulation; Circling; Head turn; Body curvature; Refractory period; Summation; Anteromedial cortex (Tehovnik, E.J.) **407**, 240

Medial pontine reticular formation

Intracellular recording; Brainstem connectivity; Midbrain reticular formation (McCarley, R.W.) **409**, 111

Intracellular recording; Brainstem connectivity; Bulbar reticular formation (Ito, K.) **409**, 97

Medial prefrontal cortex

Locomotor activity; Dopamine; Nucleus accumbens; Ventral pallidum; Dorsomedial nucleus of the thalamus; Pedunculopontine nucleus; Apomorphine; Picrotoxin; Behavior (Swerdlow, N.R.) **412**, 233

Excitotoxin; Baroreceptor reflex; Heart rate; Blood pressure; Rat (Verberne, A.J.M.) **426**, 243

Medial preoptic area

Hypothalamus; Immunohistochemistry; Preoptic region; Sexual dimorphism (Simerly, R.B.) **400**, 11

Zona incerta; Subfornical organ; Angiotensin II; Osmoreceptor; Thirst; Extracellular single-unit recording (Mok, D.) **407**, 332

Steroid autoradiography; Sex difference (Jacobson, C.D.) **414**, 349

Ventral noradrenergic tract; Luteinizing hormone; Testosterone; Naloxone; Androgenization; Sexual differentiation; Rat (Grossmann, R.) **415**, 205

Mediobasal hypothalamus; Testosterone; β -Endorphin; Neuropeptide Y; Neurotensin; Sexual differentiation; Opioid receptor; Rat (Diez-Guerra, F.J.) **424**, 225

Female hamster; Dual estradiol implant; Bilateral estradiol implant; Agonistic behavior; Scent-marking behavior; Lordosis; Ventromedial hypothalamus (Takahashi, L.K.) **425**, 337

Medial preoptic area stimulation

Locus coeruleus; Norepinephrine; Luteinizing hormone; Luteinizing hormone releasing hormone (Gitler, M.S.) **422**, 1

Locus coeruleus; Norepinephrine; Luteinizing hormone-releasing

hormone; Luteinizing hormone; α -Methyl-*p*-tyrosine; Phenoxybenzamine; Propranolol (Gitler, M.S.) **437**, 332

Medial preoptic nucleus

Hypothalamus; Sexual dimorphism; Sexual differentiation; Testosterone; Quail (Panzica, G.C.) **416**, 59

Medial septal lesion

Superior cervical ganglion; Peripheral sympathetic nervous system; Body weight; Feeding; Drinking (Harrell, L.E.) **408**, 131

Medial septal nucleus

Basal forebrain; Cholinergic system; Passive avoidance task; Morris water task; Radial maze task; Learning and memory; Animal model for dementia (Miyamoto, M.) **419**, 19

Medial septum

Hippocampus; Perforant path; Commissure; Granule cell; Interneuron; Disinhibition (Bilkey, D.K.) **405**, 320

Hippocampus; Theta rhythm; Rhythmic unit; Neuron pair; Cross-correlation (Alonso, A.) **413**, 135

Kindling; Afterdischarge; Hippocampus; Entorhinal cortex; Cholinergic input; Paroxysmal fast wave; Scopolamine (Leung, L.-W.S.) **419**, 173

Medial temporal lobe

Memory; Hippocampus; Single unit; Recognition; Monkey (Brown, M.W.) **409**, 158

Medial terminal nucleus

Retinal slip; [14 C]2-Deoxyglucose; Long-Evans rat (Biral, G.P.) **412**, 43

Median eminence

Immunocytochemistry; Histamine; Luteinizing hormone-releasing hormone (LH-RH) (Berkenbosch, F.) **405**, 353

Arylsulfatase C; Estrone-sulfate sulfatase; Pineal gland; Choroid plexus; Hypophysis; Histochemistry (Kawano, J.-I.) **409**, 391

Basal hypothalamus; Neurointermediate lobe; D₂-dopamine receptor; Dopamine release (Plantjé, J.F.) **413**, 205

Leukotriene; Luteinizing hormone-releasing hormone; Somatostatin; FPL-55712 (Gerozissis, K.) **416**, 54

Neurotensin; Immunohistochemistry; Arcuate nucleus; Hypothalamic lesion (Kiss, A.) **416**, 129

Tuberoinfundibular neuron; Dopamine; Dihydroxyphenylacetic acid (DOPAC); Sex difference; Prolactin; Stress (Lookingland, K.J.) **419**, 303

Thyroxine; Triiodothyronine; Thyroid

hormone; Deiodinase; Hypothalamus (Riskind, P.N.) **420**, 194

Hypophysectomy; Neurosecretory neuron; Regeneration; Immunohistochemistry; Vasopressin; Oxytocin; Postnatal development (Kawamoto, K.) **422**, 106

Autoradiography; Melatonin receptor; 125 I-Melatonin; Hypothalamus; Suprachiasmatic nucleus (Vaněček, J.) **435**, 359

Tuberoinfundibular dopamine neuron; Arcuate nucleus stimulation; γ -Butyrolactone; 3,4-Dihydrophenylacetic acid; Prolactin (Lookingland, K.J.) **436**, 161

Median eminence (ME)

α -MSH; β -Endorphin; Somatostatin (SRIF); In vitro incubation (Aguila, M.C.) **417**, 127

Median preoptic nucleus

Norepinephrine; Hypothalamus; Lamina terminalis; Vasopressin; Supraoptic nucleus; Fluid balance; α -Methyl tyrosine (Wilkin, L.D.) **423**, 369

Median raphe nucleus

Locomotor activity; Kainic acid; Excitatory amino acid; Nucleus centralis superior (Wirtshafter, D.) **408**, 349

Mediobasal hypothalamus

Norepinephrine; Tyrosine hydroxylase; Acute starvation; Semistarvation (Philipp, E.) **413**, 53

Na⁺, K⁺-ATPase; Estrous cycle; Ovariectomy; Estrogen; Preoptic-suprachiasmatic region; Norepinephrine (Rodriguez del Castillo, A.) **416**, 113

Median preoptic area; Testosterone; β -Endorphin; Neuropeptide Y; Neurotensin; Sexual differentiation; Opioid receptor; Rat (Diez-Guerra, F.J.) **424**, 225

Mediodorsal nucleus

Striatum; Olfactory tubercle; Pallidum; Horseradish peroxidase; Degeneration; Electron microscopy (Zahm, D.S.) **404**, 327

Prefrontal cortex; Ventromedial nucleus; Thalamocortical projection; Cat (Martínez-Moreno, E.) **407**, 17

Mediodorsal nucleus of the thalamus

Ventral pallidum; Substantia innominata; Motor control; Horseradish peroxidase; Electrophysiology (Mogenson, G.J.) **404**, 221

Medium frequency oscillation (MFO)

Phrenic nerve; Power spectra; Respiratory rhythm generator (RRG);

High-frequency oscillation (HFO); Neonatal swine; Development (Cohen, H.L.) **426**, 179

Medulla

Respiratory neuron; Halothane anesthesia; Retrofacial nucleus; Bötzing complex (Grelot, L.) **404**, 335

Mesencephalic locomotor region; Reticulospinal system (Garcia-Rill, E.) **411**, 1

Mesencephalic locomotor region; Reticulospinal system (Garcia-Rill, E.) **411**, 13

Spinal inhibition; Pain; [D-Ala^2]Methionine enkephalinamide (DALA); Vagal afferent (Randich, A.) **411**, 236

Blood flow; Common carotid artery; Reticular formation; Vascular resistance (Kuo, J.S.) **417**, 181

Medulla oblongata

Spontaneous hypertension; Nicotinic cholinceptor; [^3H]Nicotine (Yamada, S.) **410**, 212

Recurrent inhibition; Monosynaptic reflex; Raphé nucleus; Descending control; Lysergic acid diethylamide (LSD) (Kaneko, T.) **417**, 403

Medullary A₁ lesion

Noradrenaline; 6-Hydroxydopamine; Dorsal bundle lesion; Locus coeruleus lesion; Morphine analgesia; Tail flick test; Hot plate test; Pressure test (Sawynok, J.) **419**, 156

Medullary raphe nucleus

Peptide; Coexistence; Immunohistochemistry; Hypothalamus; Spinal cord (Holets, V.R.) **408**, 141

Medullary respiratory neuron

Respiration; Phrenic nerve; Nucleus of the solitary tract; Antidromic stimulation; Cross-correlation; Rat (Saether, K.) **419**, 87

Melanin-concentrating hormone

Colocalization; α -Melanocyte-stimulating hormone; Neurotransmitter (Pelletier, G.) **423**, 247

Melanocyte-stimulating hormone

Hypothalamus; Perfusion; Radioimmunoassay; Ion (Jégou, S.) **413**, 259

β -Endorphin;

Proopiomelanocortin-containing neuron; Dopaminergic agonist; Dopaminergic antagonist; Hypothalamus; High-performance liquid chromatography; Perfusion (Delbende, C.) **423**, 203

α -Melanocyte stimulating hormone

Nitrous oxide; β -Endorphin; Adrenocorticotrophic hormone; Medial basal hypothalamus; Periaqueductal gray (Zuniga, J.R.) **420**, 57

Nitrous oxide; β -Endorphin; Medial basal hypothalamus; Cytodex beads; In vitro superfusion (Zuniga, J.R.) **420**, 66

α -Melanocyte-stimulating hormone

Colocalization; Melanin-concentrating hormone; Neurotransmitter (Pelletier, G.) **423**, 247

γ_2 -Melanocyte-stimulating hormone; Cerebral blood flow autoregulation (Sandor, P.) **424**, 189

α -Melanocyte-stimulating hormone (α -MSH)

Baroreceptor area; Adrenocorticotrophic hormone (ACTH); β -Endorphin; Brainstem lesion; Hypothalamus; Nucleus of the solitary tract (Palkovits, M.) **436**, 323

γ_2 -Melanocyte-stimulating hormone

α -Melanocyte-stimulating hormone; Cerebral blood flow autoregulation (Sandor, P.) **424**, 189

Melatonin

Estradiol; Binding; Brain; Ovariectomy (Laudon, M.) **402**, 146

Lizard; Parietal eye; Pineal; Plasma; Temperature (Firth, B.T.) **404**, 313

5-Methoxytryptamine; Methoxyindole; Arachidonic acid metabolism; Prostaglandin; Thromboxane; Medial basal hypothalamus; Pineal gland (Franchi, A.M.) **405**, 384

Retinomotor movement; Cone; Light intensity (Pierce, M.E.) **405**, 400

Hibernation; Ground squirrel; Intracerebroventricular (Stanton, T.L.) **413**, 350

Mouse; Pineal; *N*-Acetyltransferase; Hydroxyindole-*O*-methyltransferase; Serotonin; *N*-Acetylserotonin (Ebihara, S.) **416**, 136

Retina; Dopamine; Serotonin *N*-acetyltransferase; Cyclic nucleotide phosphodiesterase (Iuvone, P.M.) **418**, 314

Melatonin receptor

Autoradiography; ^{125}I -Melatonin; Hypothalamus; Suprachiasmatic nucleus; Median eminence (Vaněček, J.) **435**, 359

^{125}I -Melatonin

Autoradiography; Melatonin receptor; Hypothalamus; Suprachiasmatic nucleus; Median eminence (Vaněček, J.) **435**, 359

Mellitin

Synaptic plasticity; Dentate gyrus; Perforant path; H-7; Polymyxin B; Protein phosphorylation (Loving, D.M.) **436**, 177

Membrane current

Nodose ganglion; Internal perfusion; Transient outward current (Oyama, Y.) **410**, 61

Maitotoxin; Calcium channel; Calcium antagonist; Neuroblastoma (Yoshii, M.) **424**, 119

Membrane excitability

Locus coeruleus; Spinal motoneuron; Excitatory postsynaptic potential (EPSP); Input resistance; Electrical stimulation; Cat (Fung, S.J.) **402**, 230

Membrane fluidity

Filipin; Cholesterol; Intramembranous particle (IMP); Axolemma; Myelination; Lipid domain (Fields, R.D.) **404**, 21

Membrane potential

Atrial natriuretic polypeptide; Atriopeptin; Glioma cell; Hyperpolarization (Reiser, G.) **402**, 164

L-Cysteine-sulphinat; L-Aspartate; *N*-Methyl-D-aspartate; Quisqualate; Kainate; Iontophoresis; Caudate; Excitatory amino acid; Cat (Turski, W.A.) **414**, 330

Nerve growth factor; Na-K pump; Skeletal muscle; Culture (Brodie, C.) **435**, 393

Membrane potential dependence

Postsynaptic potential; Cerebral cortex; Lingual nerve; Inferior alveolar nerve; Hypoglossal motoneuron; Cat (Takata, M.) **426**, 358

Membrane property

Petrosal ganglion; Sensory neuron; Glossopharyngeal nerve (Morales, A.) **401**, 340

Rat subthalamic neuron; Slice preparation; Intracellular recording (Nakanishi, H.) **437**, 35

Rat substantia nigra neuron; Slice preparation; Intracellular recording; Subthalamic input (Nakanishi, H.) **437**, 45

Membrane recycling

β -Adrenergic receptor; Neostriatum; Synaptosome; Somatosensory cortex; Anterior cingulate cortex; Postsynaptic density (Aoki, C.) **437**, 264

Membrane resistance

Spinal cord; Motoneuron; Electrotonic length; Cable model; Time constant; Dendrite (Glenn, L.L.) **435**, 398

Membrane transport

Choroid plexus; Chloride; Cerebrospinal fluid; Cyclic AMP; Bullfrog; Intracellular ion activity (Saito, Y.) **417**, 267

Memory

Cysteamine; Somatostatin; Norepinephrine; Dopamine; Cerebrospinal fluid (CSF); Activity; Rat (Haroutunian, V.) **403**, 234

Hippocampus; Amygdala; Timing; Temporal memory (Olton, D.S.) **404**, 180

Protease inhibitor; Leupeptin; Learning; Chick; Conditioned avoidance (Davis, J.L.) **406**, 10

Dehydroepiandrosterone; Dehydroepiandrosterone sulfate; Tissue culture (Roberts, E.) **406**, 357

Hippocampus; Medial temporal lobe; Single unit; Recognition; Monkey (Brown, M.W.) **409**, 158

Norepinephrine; Acetylcholine; Neurotransmitter interaction; Rat (Decker, M.W.) **417**, 59

Olfactory system; Long-term potentiation; Synaptic plasticity (Roman, F.) **418**, 221

Neuropeptide Y (NPY); Mouse; Recall; Retention (Flood, J.F.) **421**, 280

Retention; Opioid; Naloxone; Nalmefene (Flood, J.F.) **422**, 218

Neuron; Glia; Bouton; Dendrite; Capillary; Mitochondria; Rat; Plasticity; Learning (Sirevaag, A.M.) **424**, 320

Hippocampus; Sleep; Long-term synaptic enhancement; Long-term potentiation (LTP); Behavioral state; Field potential; Learning (Leonard, B.J.) **425**, 174

Long-term potentiation; Hippocampus; Sharp wave; Population burst; Model (Buzsáki, G.) **435**, 331

Memory deficit

Cholinergic neurotransmission; Muscarinic acetylcholine receptor; Irreversible muscarinic acetylcholine antagonist; Propylbenzylcholine mustard (PrBCM); Passive avoidance; Learning process; Alzheimer's disease (Fukuchi, I.) **400**, 53

Memory formation

Hippocampus; Area dentata; Perforant path; Active avoidance; Post-tetanic long-term potentiation (LTP); Post-conditioning long-term potentiation (LTP); Glycoprotein; Fucose (Pohle, W.) **410**, 245

Memory retention

Hypoxia; Forskolin; Cyclic adenosine monophosphate (cAMP) (Ando, S.) **405**, 371

MEPP amplitude

Miniature endplate potential (MEPP) frequency; Spatial decay method; Frog neuromuscular junction; Transmitter release; Non-uniformity (Robitaille, R.) **408**, 353

Meprobamate

Minor tranquilizer; Phenobarbital; [^{14}C]2-Deoxyglucose; Local cerebral glucose utilization (Ableitner, A.) **403**, 82

3-Mercaptopropionic acid

γ -Aminobutyric acid; Bicuculline;

Muscimol; Isoniazid; Hypothalamus; Sympathetic nervous system; Heart rate; Blood pressure (DiMicco, J.A.) **402**, 1

Mercurial

Astroglial cell; Neonatal brain; Tissue culture; Dipeptidyl peptidase; Dipeptide (Stevens, B.R.) **406**, 113

Mercury orange

Glutathione; Histochemistry; Brain; Monkey; Rodent (Slivka, A.) **409**, 275

Mesencephalic lesion

Red nucleus; Kindling; Epilepsy; Cerebellum (Paz, C.) **422**, 99

Mesencephalic locomotor region

Reticulospinal system; Medulla (Garcia-Rill, E.) **411**, 1

Reticulospinal system; Medulla (Garcia-Rill, E.) **411**, 13

Mesencephalic nucleus of the trigeminal nerve

Histaminergic innervation; Histidine decarboxylase-like immunoreactivity; Light microscopy; Electron microscopy; Immunocytochemistry; Rat (Inagaki, N.) **418**, 388

Mesencephalon

Parkinsonism; Dopamine depletion; N-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine; Monkey (Schneider, J.S.) **411**, 144

Aversion; Brain stimulation; Local neuronal circuitry; Periaqueductal gray; Rat; Spike train; Stochastic process; Unit activity (Sandner, G.) **421**, 150

Mesocricetus auratus

Sex difference; Opiate receptor; Golden hamster; Naloxone; Hypothalamus; Brain differentiation; Sexual dimorphism; [D-Ala^2 , D-Leu^5]Enkephalin binding; Sexually dimorphic nucleus (Ostrowski, N.L.) **421**, 1

Mesocortical

Food deprivation; Frontal cortex; Dopamine; Stress; Ventral tegmental area (Carlson, J.N.) **400**, 200

Mesolimbic

1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP); Parkinson's disease; African Green monkey; Ventral tegmental area; Nigrostriatal; Cerebrospinal fluid; Dopamine; Homovanillic acid; 3-Methoxy-4-hydroxyphenylglycol (MHPG) (Elsworth, J.D.) **415**, 293

Mesolimbic system

p-Tyramine; *M*-Tyramine; *p*-Tyrosine; Dopamine; 3,4-Dihydroxyphenylacetic acid; Homovanillic acid; Pargyline (Sardar, A.) **412**, 370

Messenger RNA

Substance P; Tachykinin; Human brain; Striatum (Chesselet, M.-F.) **410**, 83

Mesulergine

Serotonin; Receptor subtype; 8-Hydroxy-2-(di-*n*-propylamine)-tetralin (8-OH-DPAT); RU 24969 (Huang, J.C.) **436**, 173

Met-enkephalin

Amphibian; *Rana pipiens*; Antinociception; Dynorphin; β -Endorphin (Stevens, C.W.) **402**, 201

Leu-enkephalin; Substance P; Cholecystokinin; Dopamine; Postmortem; Human brain; Progressive supranuclear palsy (Taquet, H.) **411**, 178

Lateral olivocochlear system; Noise stimulus; Radioimmunoassay; Cochlea; Guinea pig (Eybalin, M.) **418**, 189

Met-enkephalin release

Pain; Spinal cord (Le Bars, D.) **402**, 188

Pain; Spinal cord; Dorsolateral funiculus (Le Bars, D.) **412**, 190

Met-enkephalin releaser

Kyotorphin; Ca^{2+} mobilization; Chlorotetracycline (Ueda, H.) **419**, 197

Metabolism

Glutaminase; Retina; Quantitative histochemistry; Rat; Guinea pig; Glutamatergic neurotransmission (Ross, C.D.) **401**, 168

Dopamine; Electrical stimulation; In vivo voltammetry; Synthesis; Compartment; Dynamics; Autoreceptor (Michael, A.C.) **421**, 325

Metabolism in vivo

Thiamine; Thiamine phosphoester; Nervous system; Chronic ethanol; Compartmental model (Rindi, G.) **413**, 23

Metacerebral cell

Serotonin; Intracellular voltammetry; *Aplysia*; Platinum electrode (Meulemans, A.) **414**, 158

Metal ion level

El mouse; Epileptic convulsion; Biogenic amine metabolism; Ethanol-induced sleep; Calcification (Suttoo, D.) **418**, 205

Methamphetamine

Ascorbic acid; Dopamine; Serotonin; Substance P (Matsuda, L.A.) **400**, 176

5,6-Dihydroxytryptamine; Neurotoxicity; Serotonin; Hippocampus; Psychomotor stimulant (Commings, D.L.) **403**, 7

Circling behavior; Colchicine; Striatum; Apomorphine; Degenerative atrophy (Kamata, K.) **421**, 353

Neurotensin; Dopamine; SCH 23390; Sulpiride (Letter, A.A.) **422**, 200

Methionine-enkephalin

Endogenous opioid; Opioid receptor; Cerebellum; Naltrexone; Growth; Autoradiography; Cell proliferation (Zagon, I.S.) **412**, 68

[D-Ala²]Methionine enkephalinamide (DALA)
Medulla; Spinal inhibition; Pain; Vagal afferent (Randich, A.) **411**, 236

Methoxyindole

Melatonin; 5-Methoxytryptamine; Arachidonic acid metabolism; Prostaglandin; Thromboxane; Medial basal hypothalamus; Pineal gland (Franchi, A.M.) **405**, 384

3-Methoxy-4-hydroxyphenylglycol

Alzheimer's disease; Neocortex; Serotonin; 5-Hydroxyindoleacetic acid; Noradrenaline; Dopamine; Dihydroxyphenylacetic acid; Homovanillic acid; Choline acetyltransferase (Palmer, A.M.) **401**, 231

3-Methoxy-4-hydroxyphenylglycol (MHPG)

1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP); Parkinson's disease; African Green monkey; Ventral tegmental area; Mesolimbic; Nigrostriatal; Cerebrospinal fluid; Dopamine; Homovanillic acid (Elsworth, J.D.) **415**, 293

5-Methoxytryptamine

Melatonin; Methoxyindole; Arachidonic acid metabolism; Prostaglandin; Thromboxane; Medial basal hypothalamus; Pineal gland (Franchi, A.M.) **405**, 384

Methscopolamine

Pilocarpine; Scopolamine; Linear sweep voltammetry (Mueller, K.) **408**, 313

β -N-Methylamino-L-alanine (BMAA)

β -N-Oxalylamino-L-alanine (BOAA); 2-Amino-7-phosphonoheptanoic acid (AP7); *cis*-2,3-Piperidine dicarboxylic acid (PDA); Glutamate receptor antagonist; Organotypic tissue culture (Ross, S.M.) **425**, 120

Methyl dopa

A₁ neuron; Anodal and cathodal lesion; Clonidine; 6-Hydroxydopamine; Rabbit (Head, G.A.) **412**, 18

Methylmercury

Axonal transport; Protein synthesis; Rat; Scintillation spectrometry; Autoradiography; [³H]Proline; Methylmercury 203 (Aschner, M.) **401**, 132

Methylmercury 203

Methylmercury; Axonal transport; Protein synthesis; Rat; Scintillation spectrometry; Autoradiography; [³H]Proline (Aschner, M.) **401**, 132

Methylxanthine

Brain metabolism; Caffeine; Diazepam; Benzodiazepine; 2-[¹⁴C]deoxyglucose (Nehlig, A.) **419**, 272

Methysergide

Dorsal horn neuron; C-fiber activation;

Serotonergic descending inhibitory system; Cinanserin; Nociception (Rivot, J.P.) **403**, 142

1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP)

Dopamine; Motor function; Amine accumulation; Nigrostriatal degeneration (Willis, G.L.) **402**, 269

Catecholamine; Neurotoxicity; Substantia nigra; Mice (Sundström, E.) **405**, 26

Pargyline, MPTP analogue; Third cerebral ventricle; Sexual behavior; Male rat (Sirinathsinghji, D.J.S.) **407**, 364

Neurotensin receptor; Nigrostriatal pathway; Receptor autoradiography; Substantia nigra; Striatum; Monkey (Waters, C.M.) **412**, 244

Parkinson's disease; African Green monkey; Ventral tegmental area; Mesolimbic; Nigrostriatal; Cerebrospinal fluid; Dopamine; Homovanillic acid; 3-Methoxy-4-hydroxyphenylglycol (MHPG) (Elsworth, J.D.) **415**, 293

Terminal degeneration; Nigrostriatal; Dopamine; Mosaic; Fink-Heimer; Dog; Striatum (Wilson, J.S.) **423**, 329

1-Methyl-4-phenylpyridinium ion (MPP⁺); Dopamine; 3,4-Dihydroxyphenylacetic acid (DOPAC); Push-pull perfusion; Caudate nucleus; Parkinsonism (Chang, G.D.) **424**, 49

1-Methyl-4-phenyl-2,3-dihydropyridinium (MPDP⁺); Neostriatal slice; 1-Methyl-4-phenylpyridinium (MPP⁺) (Wilson, J.A.) **425**, 376

Chemoconvulsion; Electroshock; Mouse (Fariello, R.G.) **426**, 373

1-Methyl-4-phenyl-2,3,5,6-tetrahydropyridine (MPTP)

Hemiparkinsonism; Monkey model; Bar pressing (Brooks, B.A.) **419**, 329

1-Methyl-4-phenyl-2,3-dihydropyridinium (MPDP⁺)

1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP); Neostriatal slice; 1-Methyl-4-phenylpyridinium (MPP⁺) (Wilson, J.A.) **425**, 376

1-Methyl-4-phenylpyridinium (MPP⁺)

1-Methyl-4-phenyl-2,3-dihydropyridinium (MPDP⁺); 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP); Neostriatal slice (Wilson, J.A.) **425**, 376

1-Methyl-4-phenylpyridinium ion (MPP⁺)

1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP); Dopamine; 3,4-Dihydroxyphenylacetic acid (DOPAC); Push-pull perfusion;

Caudate nucleus; Parkinsonism (Chang, G.D.) **424**, 49

Serotonin; Mouse; Striatum; High-performance liquid chromatography (HPLC); Immunohistochemistry (Hara, K.) **410**, 371

N-Methyl-D-aspartate

[³H]Glutamate binding; Rat adrenal; Stereo- and structure-selectivity; 2-Amino-3-phosphonopropionic acid; Kynurenic acid; Solubilization of binding site (Yoneda, Y.) **406**, 24

Frog spinal motoneuron; Quisqualate; Kainate; After-hyperpolarization; Sodium pump (Hackman, J.C.) **407**, 94

Substantia nigra pars reticulata; Dentate granule cell; Population spike; Limbic system excitability; Basal ganglia (Shin, C.) **411**, 21

Hippocampus; Amino acid; Purine catabolite; Excitotoxic lesion (Lehmann, A.) **411**, 95

Substantia nigra; γ -Vinyl γ -aminobutyric acid (GVG); Thermocoagulative lesion; Kindling development; Epileptogenesis (Shin, C.) **412**, 311

L-Cysteine-sulphinat; L-Aspartate; Quisqualate; Kainate; Iontophoresis; Membrane potential; Caudate; Excitatory amino acid; Cat (Turski, W.A.) **414**, 330

Phencyclidine; Phencyclidine receptor; Sigma receptor; Neurotransmitter release (Zukin, S.R.) **416**, 84

Seizure-like discharge; Neocortex; Epilepsy (Avoli, M.) **417**, 199

Cyclic guanosine monophosphate (cGMP); Excitatory amino acid; Kainate; Quisqualate; Neuronal culture (McCaslin, P.P.) **417**, 380

Rat superior colliculus; Cultured neuron; Ionic current; Glutamate receptor; Quisqualate; D-Amino-phosphonovaleric acid (Grantyn, R.) **420**, 182

Excitatory amino acid; Spinal cord; Pain; Analgesia (Raigorodsky, G.) **422**, 158

Wind-up; Excitatory amino acid; Spinal cord; Ketamine (Davies, S.N.) **424**, 402

Vestibular nucleus; Acidic amino acid receptor; Dendritic cable property; Modulator; In vitro (Knöpfel, T.) **426**, 212

3(2-Carboxypiperazin-4-yl)-propyl-1-phosphonic acid (CPP); Frontal cortex; Hyperactivity; Locomotion (O'Neill, K.A.) **435**, 371

Neurotoxicity; Cytotoxicity; Homocysteic acid; Homocysteate; Cortical neuron; Cell culture; Excitatory amino acid; Glutamate (Kim, J.P.) **437**, 103

Excitatory amino acid; Receptor; Magnesium ion; Quisqualate; Purkinje cell; Cerebellum (Sekiguchi, M.) **437**, 402

N-Methyl-D-aspartate (NMDA) receptor

Quinolate; Quinolinic acid; Electrophysiology; Excitatory amino acid; Cortex; Cell culture (Peters, S.) **420**, 1

N-Methyl-D-aspartate (NMDA)-stimulated [³H]norepinephrine release

MK-801; Phencyclidine (PCP)/ σ -receptor; Haloperidol-sensitive non-PCP/ σ -binding site; Anticonvulsant; [³H]TCP binding; (+)-[³H]SKF 10,047 competition (Sircar, R.) **435**, 235

N-Methyl-D-aspartate receptor

Magnesium; Hippocampal slice; Epilepsy; Burst (Schneiderman, J.H.) **410**, 174

Fictive locomotion; Voltage clamp; Impedance; Admittance; Voltage-dependent conductance; Excitatory synaptic current; Lamprey (Moore, L.E.) **419**, 397

N-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine

Parkinsonism; Mesencephalon; Dopamine depletion; Monkey (Schneider, J.S.) **411**, 144

α -Methyl-D-tyrosine

Amygdala; Brain nucleus; Dopamine; Turnover; Limbic system; Norepinephrine (Kilts, C.D.) **416**, 402

Norepinephrine; Hypothalamus; Lamina terminalis; Median preoptic nucleus; Vasopressin; Supraoptic nucleus; Fluid balance (Wilkin, L.D.) **423**, 369

Locus coeruleus; Medial preoptic area stimulation; Norepinephrine; Luteinizing hormone-releasing hormone; Luteinizing hormone; Phenoxylbenzamine; Propranolol (Gitler, M.S.) **437**, 332

Metoclopramide

LY171555 (Quinpirole); Dopaminergic System Activity; Striatum; Desoxycorticosterone acetate (DOCA)/NaCl-hypertensive rat; In vivo push-pull perfusion; High-performance liquid chromatography (HPLC) (Chen, Y.-F.) **400**, 225

Metrazol

Hippocampus; Theophylline; Caffeine; Kainic acid; Adenosine receptor; Epilepsy (Ault, B.) **426**, 93

Metyrapone

Oxytocin; Adrenocorticotrophic hormone (Chiodera, P.) **420**, 178

Mianserin

Citalopram; Dopamine release; Adrenoceptor; Nucleus accumbens; Striatum (Russell, V.A.) **410**, 78

Mice

1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP); Catecholamine; Neurotoxicity; Substantia nigra (Sundström, E.) **405**, 26

Microdialysis

Amphetamine; Dopamine release; Intracerebral dialysis; Stereotypy; Locomotor activity; Striatum; Nucleus accumbens (Sharp, T.) **401**, 322

Dopamine; Interval feeding; Striatum; Behavior; HPLC/EC (Church, W.H.) **412**, 397

Microelectrode

Red nucleus; Rubrospinal; Single unit; Motor control; Digit movement; Monkey (Kennedy, P.R.) **417**, 185

Microelectrode mapping

Visual cortex; Visual topography; Striate area; Extrastriate area; Callosal connection; Horseradish peroxidase; Rat (Thomas, H.C.) **417**, 214

Microinfusion

Gastrin; Hypothalamus; Ventromedial nucleus; Lateral hypothalamus; Brain; Gastric secretion; Caudate-putamen (Gunion, M.W.) **422**, 118

Microinjection

Conditioned place preference; Dopamine; Opioid reward; Morphine; Reward system; Ventral tegmental area (Bozarth, M.A.) **414**, 77

Desynchronized sleep; Pontine tegmentum; Acetylcholine; Carbachol; Cat (Baghdoyan, H.A.) **414**, 245

Collateral sprouting; Sensory axon; Hairy skin; Dermatome; Spinal nerve lesion; Wheat germ agglutinin-horseradish peroxidase conjugate; Anterograde transport (Kinnman, E.) **414**, 385

Neurotensin; Analgesia; Nucleus raphe magnus; Pain; Brainstem (Fang, F.G.) **420**, 171

Inositol 1,4,5-trisphosphate; Photoreceptor; Calcium; Aequorin; Discrete burst (Corson, D.W.) **423**, 343

Pain; Tonic; Serotonin; Morphine; Analgesia (Inase, M.) **426**, 205

Nerve agent; Soman; O-ethyl-S-(2-diisopropyl-aminoethyl)-methylphosphonothioate (VX); Convulsion; Amygdala; Brain damage; Neuropathology; Excitotoxic (McDonough Jr., J.H.) **435**, 123

Opiate; Morphine; γ -Aminobutyric acid; 4,5,6,7-Tetrahydroisoxazolo-

[5,4-c]pyridin 3-ol (THIP); Picrotoxin; Periaqueductal gray; Rat; Analgesia; Pain-inhibition (Depaulis, A.) **436**, 223

Microiontophoresis

β -Adrenergic receptor; Supersensitivity; Norepinephrine; Morphine dependence; Withdrawal; Parietal cortex; Receptor binding (Moises, H.C.) **400**, 110

N-Acetyl-aspartylglutamate; Lateral septal nucleus; Fimbria; In vitro autoradiography; Receptor (Joëls, M.) **403**, 192

Subthalamic nucleus; Bilateral decortication; Glutamate hypersensitivity (Rouzaire-Dubois, B.) **403**, 366

Rat; Septohippocampal pathway; Axonal terminal excitability; Antidromic stimulation; γ -Aminobutyric acid (GABA); Glutamate; Impulse flow; Autoreceptor (Dutar, P.) **418**, 98

Autonomic; Baroreceptor reflex; Blood pressure; Catecholamine; Nucleus tractus solitarius; Single unit (Feldman, P.D.) **420**, 351

γ -Aminobutyric acid (GABA); GABA receptor; Substantia nigra; Chronic haloperidol; Supersensitivity; Glycine (Frey, J.M.) **425**, 73

Microphthalmic snake

Optic system (Reperant, J.) **408**, 233

Micropunch

BALB/c mouse strain; CBA mouse strain; Substantia nigra zona compacta; Ventral tegmental area; Caudate; Met-Enkephalin; Radioimmunoassay (Sanghera, M.K.) **412**, 200

Microspectrofluorimetry

Aplysia; Neuron; Monoamine; Fluorescent histochemistry (Salimova, N.B.) **400**, 285

Microsphere

Sleep; Cerebral circulation; Regional blood flow (Lenzi, P.) **415**, 14

Embolism; Cerebral ischemia; Stroke model; Pharmacology; Cyproheptadine (Zivin, J.A.) **435**, 305

Microtubule

Olfactory axon; Microtubule length; Microtubule number; Frog olfactory axon; Axonal microtubule; Axon (Burton, P.R.) **409**, 71

Alcohol; Acetaldehyde; Brain; Tubulin; Polymerization; Adduct (McKinnon, G.) **416**, 90

Alzheimer's disease; Dendrite; Frontal cortex (Paula-Barbosa, M.) **417**, 139

Tannic acid; Exocytosis; Synapse;

Microtubule associated protein
(Berdan, R.C.) **417**, 153

Tissue culture; Dorsal root ganglion;
Neuron; Taxol; Colchicine; Axonal
transport; Adult mouse (Horie, H.)
420, 144

Neuron; Neurite; Axon;
Compartmentation; Ribosome
(Baas, P.W.) **420**, 73

Microtubule associated protein
Tannic acid; Exocytosis; Synapse;
Microtubule (Berdan, R.C.) **417**, 153

Alzheimer disease; Paired helical
filaments; Cytoskeleton;
Neurofilament; Immunocytochemistry
(Perry, G.) **420**, 233

Microtubule length
Microtubule; Olfactory axon;
Microtubule number; Frog olfactory
axon; Axonal microtubule; Axon
(Burton, P.R.) **409**, 71

Microtubule number
Microtubule; Olfactory axon;
Microtubule length; Frog olfactory
axon; Axonal microtubule; Axon
(Burton, P.R.) **409**, 71

Microtubule-associated protein
Tau; Denervation; Hippocampus;
Immunocytochemistry; Electrophoresis
(Busciglio, J.) **419**, 244

Microtubule-associated protein 2
Evolution; Phylogeny; Monoclonal
antibody; Vertebrate brain; Protein
phosphorylation (Fischer, I.) **436**, 39

Microvasculature
Global brain ischemia; Endothelial
microvilli; Postischemic hypoperfusion;
Transmission electron microscopy
(Kumar, K.) **421**, 309

Microvessel
Vasospasm; Tetrodotoxin; Neurogenic
control; Hippocampal slice
(Cach, R.L.) **421**, 370

Microwave
Hyperthermia; Glial fibrillary acidic
protein; Brain damage; Response to
injury; Rat (Miller, D.B.) **415**, 371

Glycogen; Glucose; Brain
(Sagar, S.M.) **417**, 172

Micturition reflex
Rat; Somato-vesical reflex;
Vesico-vesical reflex; Urethane;
Bladder voiding; Sensory neuron;
Sensory-efferent function
(Maggi, C.A.) **415**, 1

Midazolam
Cysteamine; Kindling; Myoclonus;
Seizure; Long-term inhibition
(Cottrell, G.A.) **412**, 161

Midbrain
Locomotion; Lateral hypothalamus
(Sinnamon, H.M.) **402**, 78

Dopamine; Electrophysiology;
Apomorphine; Cholecystokinin; Freely

moving rat (Freeman, A.S.) **405**, 46

Rhythmic digastric activity; Rhythmic
jaw movement; Decerebration
(Tal, M.) **411**, 58

Climbing fiber projection; Cerebellar
cortex; Nucleus of Darkschewitsch; Cat
(Jeneskog, T.) **412**, 185

Medial basal hypothalamus; Serotonin;
Pons; Immunohistochemistry; Fast
blue; Fluoro-gold (Willoughby, J.O.)
418, 170

Deoxycorticosterone-salt hypertension;
Hypothalamus; Knife cut
(Cannata, M.A.) **420**, 295

Tyrosine hydroxylase; Electron
microscopy; Radioautography;
Immunocytochemistry (Hervé, D.)
435, 71

Midbrain central gray
Leuromorphin; Lordosis; Prolactin;
Ventromedial hypothalamus
(Sakuma, Y.) **407**, 401

Lateral vestibular nucleus;
Electromyography; Electrical
stimulation; Lateral longissimus;
Medial longissimus; Axial muscle
(Cottingham, S.L.) **421**, 397

Affective defense behavior; Quiet
biting attack behavior;
2-Deoxy-[¹⁴C]glucose autoradiography;
[³H]Leucine autoradiography
(Shaikh, M.B.) **437**, 9

Midbrain reticular formation
Intracellular recording; Brainstem
connectivity; Medial pontine reticular
formation (McCarley, R.W.) **409**, 111

Midbrain reticular stimulation
Cerebellum; Flocculus; Vestibular
nucleus; 2-Deoxyglucose; Learning
(Gonzalez-Lima, F.) **412**, 275

Middle cerebral artery
Hyperglycemia; Focal ischemia;
Infarction; Lactacidosis; Rat
(Nedergaard, M.) **408**, 79

Middle ear aeration
Tensor tympani; Trigeminal motor
nucleus; Primate (Gannon, P.J.)
404, 257

Midline fusion
Corpus callosum; Monkey;
Somatosensory system;
Interhemispheric transfer; Receptive
field (Guillemot, J.-P.) **402**, 293

Tyr-MIF-1
Hyperalgesia; β -Endorphin;
Morphiceptin; Neonate (Zadina, J.E.)
409, 10

Milk ejection
Oxytocin cell; Vaginal distension;
Suckling stimulus; Paraventricular
nucleus (Negoro, H.) **404**, 371

Mineralocorticoid
Aldosterone; Corticosterone;
Hippocampus; Hypothalamus;

Receptor; Glucocorticoid
(Yongue, B.G.) **436**, 49

Miniature endplate current
Neuromuscular junction; Rising phase;
Kinetic parameter; Non-linear
regression; Estimation (Madsen, B.W.)
402, 387

Miniature endplate potential
BAY K 8644; Neuromuscular junction;
Endplate potential; Calcium channel
agonist; Dihydropyridine
(Atchison, W.D.) **419**, 315

Miniature endplate potential
(MEPP) frequency
MEPP amplitude; Spatial decay
method; Frog neuromuscular junction;
Transmitter release; Non-uniformity
(Robitaille, R.) **408**, 353

Minipig
Drinking; Dopamine; Angiotensin
(Thornton, S.N.) **410**, 401

Minor tranquilizer
Meprobamate; Phenobarbital;
[1-¹⁴C]2-Deoxyglucose; Local cerebral
glucose utilization (Ableitner, A.)
403, 82

Tail-pinch; 3,4-Dihydroxyphenylacetic
acid (DOPAC); Nucleus accumbens;
Prefrontal cortex (D'Angio, M.)
409, 169

Mirror technique
Double staining; Nigrostriatal; Synaptic
interaction; Tyrosine hydroxylase;
Substance P (Kawai, Y.) **401**, 371

Mitochondria
Axon; Axonal transport; Video
microscopy; Organelle movement
(Forman, D.S.) **412**, 96

Neuron; Glia; Bouton; Dendrite;
Capillary; Rat; Plasticity; Memory;
Learning (Sirevaag, A.M.) **424**, 320

Mitochondrion
Molecular probe; Spreading
depression; Seizure activity; Anoxia;
Bicuculline; Picrotoxin (Evans, D.)
409, 350

Rat; Plasma hyperkalemia; Choroid
plexus; Quantitative stereology; Apical
microvilli; Cerebrospinal fluid
secretion; Cerebrospinal fluid
potassium (Keep, R.F.) **413**, 45

Alzheimer's disease; Pick's disease;
Glucose metabolism (Sims, N.R.)
436, 30

Mitosis
Schwann cell; Remyelination; Central
nervous system (Harrison, B.M.)
409, 163

Wallerian degeneration; Endothelial
cell; Ornithine decarboxylase; RNA;
Protein synthesis (Oaklander, A.L.)
419, 39

Mitral cell
Glutamate; Immunocytochemistry;

Lateral olfactory tract;
N-Acetyl-aspartyl-glutamate;
Neuropeptide; Olfactory bulb
(Blakely, R.D.) **402**, 373

Olfactory bulb; Lateral inhibition;
Olfactory processing; Olfactory bulb
glomerulus; Periglomerular cell
(Wilson, D.A.) **417**, 175

Mixture suppression

Odor; Psychophysics; 2-Deoxyglucose;
Olfactory epithelium; Odor polarity;
Human; Rat (Bell, G.A.) **426**, 8

MK-801

Phencyclidine (PCP)/ σ -receptor;
Haloperidol-sensitive
non-PCP/ σ -binding site;
Anticonvulsant; [^3H]TCP binding;
(+)-[^3H]SKF 10,047 competition;
N-Methyl-D-aspartate
(NMDA)-stimulated
[^3H]norepinephrine release (Sircar, R.)
435, 235

Model

Long-term potentiation; Hippocampus;
Sharp wave; Population burst; Memory
(Buzsáki, G.) **435**, 331

Modelling

Central nervous system (CNS);
Electrophysiology; Cortex; Olfaction;
Field potential; Transmission
(Bressler, S.L.) **409**, 294

Modulation

Potassium channel; Serotonin; Sensory
neuron; *Aplysia* (Pollock, J.D.)
410, 367

Neurotensin; Dopamine release;
Desipramine; Nucleus accumbens
(Reynke, L.) **425**, 114

Adenosine; Synaptic transmission;
Glutamate; Rat hippocampal slice
(Proctor, W.R.) **426**, 187

Glutamate; Mollusc; Feeding; Amino
acid; Stress; Output (Jones, P.G.)
437, 56

Modulator

Vestibular nucleus;
N-Methyl-D-aspartate; Acidic amino
acid receptor; Dendritic cable property;
In vitro (Knöpfel, T.) **426**, 212

Molecular layer

Adenosine receptor; Brain; Maudsley
rat; Autoradiography (Marangos, P.J.)
421, 69

Molecular probe

Spreading depression; Seizure activity;
Anoxia; Mitochondrion; Bicuculline;
Picrotoxin (Evans, D.) **409**, 350

Mollusc

Somatostatin; Sprouting; Neurite;
Regeneration; Peptide; Plasticity
(Bullock, A.G.M.) **412**, 6

Circadian rhythm; Pacemaker coupling;
Bulla gouldiana; *Aplysia californica*;
Bursatella leachi plei (Roberts, M.H.)
423, 286

Glutamate; Feeding; Amino acid;
Stress; Output; Modulation
(Jones, P.G.) **437**, 56

Monkey

Pulvinar; Unit activity; Auditory;
Movement; Behavior (Yirmiya, R.)
402, 93

Corpus callosum; Somatosensory
system; Interhemispheric transfer;
Receptive field; Midline fusion
(Guillemot, J.-P.) **402**, 293

Lateral hypothalamus; Single neuron
activity; Electrophoresis; Dopamine;
Noradrenaline; Operant feeding; Cue
response; Reward (Nishino, H.)
405, 56

Somatostatin; Neuropeptide Y; Basal
ganglion; Cortex (Beal, M.F.) **405**, 213

Nucleus of the optic tract; Inferior
olive; γ -Aminobutyric acid;
Horseradish peroxidase;
Tetramethylbenzidine; Cat; Rat
(Horn, A.K.E.) **409**, 133

Memory; Hippocampus; Medial
temporal lobe; Single unit; Recognition
(Brown, M.W.) **409**, 158

Glutathione; Histochemistry; Brain;
Mercury orange; Rodent (Slivka, A.)
409, 275

Inferotemporal neuron; Auditory
signal; Selective attention; Visual
cognition (Iwai, E.) **410**, 121

Parkinsonism; Mesencephalon;
Dopamine depletion;
N-Methyl-4-phenyl-1,2,3,6-
tetrahydropyridine (Schneider, J.S.)
411, 144

1-Methyl-4-phenyl-1,2,3,6-
tetrahydropyridine (MPTP);
Neurotensin receptor; Nigrostriatal
pathway; Receptor autoradiography;
Substantia nigra; Striatum
(Waters, C.M.) **412**, 244

Ventral tegmental area; Single neuron
activity; Dopamine; Feeding; Motor;
Motivation; Vocalization (Nishino, H.)
413, 302

Prefrontal cortex; Prestriate cortex;
Cooling; Visually initiated hand
movement (Sasaki, K.) **415**, 362

Red nucleus; Rubrospinal; Single unit;
Microelectrode; Motor control; Digit
movement (Kennedy, P.R.) **417**, 185

Lys⁸-Asn⁹-Neurotensin(8–13);
Neuromedin N; Basal ganglion; Globus
pallidus; Striatum;
Immunohistochemistry (Reiner, A.)
422, 186

Neuropeptide; Thalamus; Afferent
innervation (Molinari, M.) **426**, 270

Monkey (rhesus)

Cortex (visual); EEG (spatial pattern);
Perception (visual); Spatial analysis
(EEG); Visual cortex (EEG)

(Freeman, W.J.) **422**, 267

Monkey model

Hemiparkinsonism; Bar pressing;
N-Methyl-4-phenyl-2,3,5,6-
tetrahydropyridine (MPTP)
(Brooks, B.A.) **419**, 329

Monoamine

Aplysia; Neuron; Fluorescent
histochemistry;
Microspectrofluorimetry
(Salimova, N.B.) **400**, 285

Serotonin; Catecholamine;
Hermisenda; Gastropod (Croll, R.P.)
405, 337

Cat; Spinal cord; Lesion;
Neurotransmitter (Casey, K.L.) **408**, 377

High-performance liquid
chromatography (HPLC);
Electrochemical detection; Medial
basal hypothalamus; Luteinizing
hormone (LH) surge; Estradiol;
4-Hydroxy-3-methoxyphenyl-
ethyleneglycol (MHPG)
(Osterburg, H.H.) **409**, 31

Thiamine deficiency; Cortical
distribution; Korsakoff's disease model
(Langlais, P.J.) **421**, 140

Monoamine balance

Serotonin uptake; Serotonin release;
Monoamine oxidase activity;
Hypothalamus; Aging (Navarro, H.A.)
421, 291

Monoamine metabolism

Streptozotocin diabetes; Hypothalamic
nucleus (Bitar, M.S.) **409**, 236

Monoamine metabolite

Carbon monoxide; Hypoxia
(MacMillan, V.) **408**, 40

Monoamine oxidase activity

Serotonin uptake; Serotonin release;
Hypothalamus; Aging; Monoamine
balance (Navarro, H.A.) **421**, 291

Monoamine oxidase inhibitor

Tryptamine; Receptor binding;
Down-regulation; Clorgyline;
Frontal/parietal cortex; Chronic
treatment (Martin, L.L.) **419**, 239

Adrenaline release; Noradrenaline
release; Intracerebral dialysis;
Phenylethanolamine-
N-methyltransferase (PNMT) inhibitor;
Idazoxan; N-(2-Chloroethyl)-N-ethyl-2-
bromobenzylamine (DSP₄)
(Routledge, C.) **426**, 103

Monoclonal antibody

Hippocampus; Acetylcholine; Choline
acetyltransferase (ChAT);
Immunocytochemistry; Morphometry;
Septal lesion; Rat (Matthews, D.A.)
402, 30

Synaptic vesicle;
Immunohistochemistry; Immunoblot
analysis; Specific protein (Obata, K.)
404, 169

- Synaptic membrane; Glycoprotein (Beesley, P.W.) **408**, 65
- Retina; Monolayer culture; Reaggregate culture; γ -Aminobutyric acid; Amacrine cell; Rat (Akagawa, K.) **408**, 154
- Olfactory receptor cell; Vomeronasal receptor cell; Neuronal subset; Lactoseries carbohydrate (Mori, K.) **408**, 215
- Benzodiazepine receptor; Endogenous benzodiazepine; Human cerebellum; Benzodiazepine (De Blas, A.L.) **413**, 275
- Benzodiazepine receptor; Benzodiazepine; Endogenous benzodiazepine; Immunocytochemistry (De Blas, A.L.) **413**, 285
- Nervous system-specific protein; S54 protein; Dendrite; Synapse; Immunoelectron microscopy (Shirao, T.) **413**, 374
- Retinal bipolar cell; Subpopulation; MAb 5A10; Cell-surface antigen; Frog; Vertebrate (Onoda, N.) **416**, 359
- Neuron-specific enolase; Central nervous system (Frikke, M.J.) **417**, 283
- Central nervous system neuron; Neuronal marker; Cell culture; Terminal differentiation; Immunocytochemistry (Wu, D.K.) **421**, 186
- Neurofilament; Axon sprouting; Thyroid hormone (Gravel, C.) **422**, 327
- Nerve growth factor receptor; Cerebrospinal fluid transport; Basal forebrain; Cholinergic neuron; Cholinergic basal forebrain (Schweitzer, J.B.) **423**, 309
- Growth hormone-releasing factor (GRF); Immunohistochemistry; Paraventricular nucleus; Arcuate nucleus; Rat (Bruhn, T.O.) **424**, 290
- Retina; Ganglion cell; Albino; Rabbit (Oyster, C.W.) **425**, 25
- Schwann cell; Cyclic AMP; Surface membrane molecule; Myelination (Rostami, A.) **425**, 205
- Phenylalanine hydroxylase; Tyrosine hydroxylase; Tryptophan hydroxylase; Immunocytochemistry; Brain (Haan, E.A.) **426**, 19
- 2':3'-Cyclic nucleotide 3'-phosphodiesterase (CNase); Oligodendrocyte; Schwann cell; Cell marker enzyme; Wolfgram protein fraction (Sprinkle, T.J.) **426**, 349
- Microtubule-associated protein 2; Evolution; Phylogeny; Vertebrate brain; Protein phosphorylation (Fischer, I.) **436**, 39
- Photoreceptor; Müller cell; Opsin; Immunocytochemistry; Electron microscopy; Cell interaction (Akagawa, K.) **437**, 298
- Monocular deprivation**
Desmethylinipramine; 6-Hydroxydopamine; Plasticity (Allen, E.E.) **401**, 397
- Synapse; Visual system; Bird; Quantitative analysis (Nixdorf, B.) **405**, 326
- Visual cortex; Lateral geniculate nucleus; Amblyopia; Visual development; Visual pathway (Christen, W.G.) **415**, 233
- Monocular movement**
Eye movement; Frontal eye field; Oculomotor area; Coronal sulcus; Anterior ectosylvian sulcus; Cat (Nakai, M.) **414**, 91
- Monolayer culture**
Retina; Reaggregate culture; γ -Aminobutyric acid; Monoclonal antibody; Amacrine cell; Rat (Akagawa, K.) **408**, 154
- Brain endothelial cell; Electrical resistance; Aortic endothelial culture; Epididymal endothelial culture; Permeability (Rutten, M.J.) **425**, 301
- Monosodium glutamate**
Bipiperidyl mustard; Cholecystokinin; Ventromedial hypothalamus; Paraventricular nucleus; Insulin; Hyperphagia; Feeding; Obesity (Scallet, A.C.) **407**, 390
- ¹²⁵I-Angiotensin II binding; Brain; Rat; Circumventricular organ (Rogulja, I.) **419**, 333
- Monosynaptic excitatory postsynaptic potential**
C₃-C₅ propriospinal neuron; Crossed; Uncrossed; Higher motor center; Primary afferent (Alstermark, B.) **404**, 382
- C₃-C₅ propriospinal neuron; Vestibular nucleus; Monosynaptic inhibitory postsynaptic potential (Alstermark, B.) **404**, 389
- Monosynaptic inhibitory postsynaptic potential**
C₃-C₅ propriospinal neuron; Vestibular nucleus; Monosynaptic excitatory postsynaptic potential (Alstermark, B.) **404**, 389
- Monosynaptic reflex**
Locus coeruleus; Brainstem; Renshaw cell; Descending control; Spinal cord; Motoneuron; Inhibition (Fung, S.J.) **402**, 351
- Recurrent inhibition; Raphé nucleus; Medulla oblongata; Descending control; Lysergic acid diethylamide (LSD) (Kaneko, T.) **417**, 403
- Morphiceptin**
Hyperalgesia; β -Endorphin; Tyr-MIF-1; Neonate (Zadina, J.E.) **409**, 10
- Morphine**
Respiratory depression tolerance; Etorphine; Heroin (Roerig, S.C.) **400**, 278
- Chronic stress; Corticosterone; Growth hormone; Thyroid stimulating hormone; Endogenous opioid (Armario, A.) **401**, 200
- Rat; Spinal cord; Antinociception; Clonidine; Potentiation; Sensory system; Motor system (Wilcox, G.L.) **405**, 84
- Arthritic rat; Bidirectional effect of naloxone; Cross-tolerance; Naloxone (Kayser, V.) **405**, 123
- Rat habenula; Analgesia; Naloxone; Pain (Mahieux, G.) **406**, 118
- Zona incerta-lateral hypothalamus; Catalepsy; Muscular rigidity; Electromyogram; Picrotoxin; Bicuculline methiodide (Wardas, J.) **408**, 363
- Analgesia; Tolerance; Dependence; Cholecystokinin; Progumide; Benzotript (Panerai, A.E.) **410**, 52
- Antinociception; Substantia nigra; Opioid peptide (Baumeister, A.A.) **411**, 183
- Voltammetry; Spinal cord; 5-Hydroxyindole; Probenecid; Nucleus raphe magnus (Chiang, C.-Y.) **411**, 259
- Conditioned place preference; Dopamine; Opioid reward; Microinjection; Reward system; Ventral tegmental area (Bozarth, M.A.) **414**, 77
- Arthritic rat; Analgesia; Hyperalgesia (Kayser, V.) **414**, 155
- Analgesia; Calcium channel antagonist; Phe-Met-Arg-Phe-NH₂ (FMRFamide); Stress; Stress-induced analgesia; Immobilization; Naloxone; Opioid analgesia (Kavaliers, M.) **415**, 380
- Opioid peptide; Pulsatile; Luteinizing hormone; Estradiol; Progesterone; Naloxone (Babu, G.N.) **416**, 235
- Intracranial self-administration; Lateral hypothalamus; Mouse (Cazala, P.) **416**, 283
- Tail flick; Pentobarbital; Intrathecal; Naltrexone; Transcutaneous electrical nerve stimulation (TENS); Electroacupuncture (Peets, J.M.) **416**, 301
- Ventral tegmental area; Nucleus accumbens; Enkephalin; μ -Opioid receptor; Locomotor activity; Sensitization; Dopamine (Vezina, P.) **417**, 51
- Analgesia; 60-Hz magnetic field; Mouse; Power line frequency; Health effect (Ossenkopp, K.-P.) **418**, 356
- Enkephalin; Opioid peptide; Adenylate

cyclase; Cochlea; Lateral olivocochlear system; Guinea pig (Eybalin, M.) **421**, 336

Opiate receptor; μ -Receptor; κ -Receptor; Naloxone; MR 2034; Corticotropin releasing factor (CRF); Adrenocorticotrophic hormone (ACTH) (Nikolarakis, K.) **421**, 373

Oxymorphone; Nalbuphine; Cerebral glucose utilization; Opioid receptor; Analgesia; Thalamus; Nucleus of the spinal tract of the trigeminal nerve (Fanelli, R.J.) **422**, 257

Presynaptic opiate receptor; Locus coeruleus; Purkinje cell; Norepinephrine; γ -Aminobutyric acid; Inhibition (Moises, H.C.) **423**, 149

Naloxone; Naltrexone; Antinociception; Opioid receptor; Upregulation (Stevens, C.W.) **425**, 388

Opiate; Naloxone; Opiate withdrawal; Clonidine; Norepinephrine; Skin temperature (Katovich, M.J.) **426**, 55

Pain; Tonic; Serotonin; Microinjection; Analgesia (Inase, M.) **426**, 205

Dynorphin; Spinal cord; Tail-flick; Neurotoxicity; Reflex (Caudle, R.M.) **435**, 1

Dopamine; Opioid; U-69593; SCH 23390; Reinforcement; Motivation; Place conditioning (Shippenberg, T.S.) **436**, 169

Opiate; γ -Aminobutyric acid; 4,5,6,7-Tetrahydroisoxazolo-[5,4-c]pyridin 3-ol (THIP); Picrotoxin; Microinjection; Periaqueductal gray; Rat; Analgesia; Pain-inhibition (Depaulis, A.) **436**, 223

Place conditioning; δ -Receptor; Opioid; Reinforcement; [D -Pen², D -Pen⁵]-Enkephalin (DPDPE); ICI 174,864 (Shippenberg, T.S.) **436**, 234

G protein; Guanosine 5'-triphosphate (GTP); Guanosine-5'- O -(3-thiotriphosphate) (GTP γ S); Hyperpolarization; Locus coeruleus; Pertussis toxin (Wang, Y.-Y.) **436**, 396

Morphine analgesia

Noradrenaline; 6-Hydroxydopamine; Medullary A₁ lesion; Dorsal bundle lesion; Locus coeruleus lesion; Tail flick test; Hot plate test; Pressure test (Sawynok, J.) **419**, 156

Opiate tolerance; Periaqueductal gray (Siuciak, J.A.) **424**, 311

Morphine dependence

β -Adrenergic receptor; Supersensitivity; Norepinephrine; Withdrawal; Parietal cortex; Receptor

binding; Microiontophoresis (Moises, H.C.) **400**, 110

Morphine pellet

Opiate physical dependence; Conditioned place preference; Withdrawal distress; Naltrexone; Quaternary naltrexone; Abstinence motivation (Mucha, R.F.) **418**, 214

Morphine withdrawal

Substance P; Presynaptic Ca²⁺ channel; Withdrawal jumping (Ueda, H.) **425**, 101

Morphology

Motoneuron; Accessory nerve; Distribution; Cobaltic lysine; Japanese toad (Oka, Y.) **400**, 383

Preganglionic parasympathetic neuron; Dorsal motor nucleus; Salivatory nucleus; Distribution; Cobaltic lysine; Japanese toad (Oka, Y.) **400**, 389

Fetal transplants; Frontal cortex; Acetylcholinesterase; Choline acetyltransferase; Cytochrome oxidase (Mufson, E.J.) **401**, 162

Crayfish; Tritocerebrum; Interneuron; Stimulus coding; Classification (Tautz, J.) **407**, 230

Morphometry

Hippocampus; Acetylcholine; Choline acetyltransferase (ChAT); Monoclonal antibody; Immunocytochemistry; Septal lesion; Rat (Matthews, D.A.) **402**, 30

Alzheimer's disease; Senile dementia; Dendrite; Spine density; Dentate gyrus; Granule cell; Golgi-rapid study; Human brain (De Ruiter, J.P.) **402**, 217

Spinal cord injury; Neurofilament; Protease inhibitor; Leupeptin; E-64; Fink-Heimer method (Iwasaki, Y.) **406**, 99

Aging; Circadian rhythm; Enriched environment; Male rat; Suprachiasmatic nucleus; Vasopressin (Roozendaal, B.) **409**, 259

Alzheimer's disease; Senile dementia; Neostriatum; Large neuron (Oyanagi, K.) **411**, 205

Embryonic graft; Neostriatum; Transplantation; Dendritic morphology; Spiny neuron; Rat (Zemanick, M.C.) **414**, 149

Morris water task

Basal forebrain; Medial septal nucleus; Cholinergic system; Passive avoidance task; Radial maze task; Learning and memory; Animal model for dementia (Miyamoto, M.) **419**, 19

Mosaic

1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP); Terminal degeneration; Nigrostriatal; Dopamine; Fink-Heimer; Dog; Striatum (Wilson, J.S.) **423**, 329

Mosaicism

Shaking pup; Myelin-deficient rat; Optic nerve; Spinal cord (Duncan, I.D.) **402**, 168

Mossy fiber

Hippocampus; In situ; Push-pull zinc (Aniksztejn, L.) **404**, 58

Cerebellum; Climbing fiber; Inferior olivary nucleus; Locomotor activity; Cyclic guanosine monophosphate (McCaslin, P.P.) **414**, 381

Cholecalciferol (28 kDa CaBP); Hippocampal formation; Pyramidal cell; Rat; Guinea pig; Hedgehog (Rami, A.) **422**, 149

Hippocampal zinc; Depletion; Perikaryal accumulation; Colchicine; Rat brain (Szerdahelyi, P.) **422**, 287

Learning; Radial-maze; Hippocampus; Mouse (Crusio, W.E.) **425**, 182

Motion perception

Attention; Peripheral-central visual field; Event-related brain potential; Hemispheric specialization (Neville, H.J.) **405**, 253

Attention; Peripheral-central visual field; Event-related brain potential; Deafness; Hemispheric specialization; Development (Neville, H.J.) **405**, 268

Attention; Peripheral-central visual field; Event-related brain potential; Deafness; Hemispheric specialization; Development; American sign language (Neville, H.J.) **405**, 284

Motivation

Ventral tegmental area; Monkey; Single neuron activity; Dopamine; Feeding; Motor; Vocalization (Nishino, H.) **413**, 302

Dopamine; Opioid; Morphine; U-69593; SCH 23390; Reinforcement; Place conditioning (Shippenberg, T.S.) **436**, 169

Motoneuron

Accessory nerve; Morphology; Distribution; Cobaltic lysine; Japanese toad (Oka, Y.) **400**, 383

Anesthetic; Halothane; Excitatory postsynaptic potential (EPSP); Inhibitory postsynaptic potential (IPSP); Spinal cord (Takenoshita, M.) **402**, 303

Locus coeruleus; Brainstem; Monosynaptic reflex; Renshaw cell; Descending control; Spinal cord; Inhibition (Fung, S.J.) **402**, 351

Tetanus toxin; Transneuronal transport (Fishman, P.S.) **406**, 275

Reticulospinal neuron; Excitatory postsynaptic potential; Excitatory amino acid receptor; Lamprey (Buchanan, J.T.) **408**, 321

Motor tract stimulation; Facilitation (Rossini, P.M.) **415**, 211

Cl⁻-ATPase; Na⁺, K⁺-ATPase; Spinal cord; Rat (Inagaki, C.) **419**, 375

Immunohistochemistry; Thyrotropin-releasing hormone; Intracellular staining; Horseradish peroxidase; Spinal cord (Ulfhake, B.) **419**, 387

Dissociated cell culture; Spinal cord; Mouse; Choline acetyltransferase; Glutamic acid decarboxylase (Guthrie, P.B.) **420**, 313

Spinal reflex; Motor unit; Electromyography; H-reflex; Motor control (Sabbahi, M.A.) **423**, 125

Reticular formation; Nucleus reticularis gigantocellularis; Spinal cord; Inhibitory postsynaptic potential (IPSP); Sleep; Glycine; γ -Aminobutyric acid (Soja, P.J.) **423**, 353

Spinal nucleus of the bulbocavernosus; Genotype; House mouse; Castration; Strain difference; Androgen (Wee, B.E.F.) **424**, 305

Testosterone; Penile reflex; Synaptic plasticity (Leedy, M.G.) **424**, 386

Stapedius; Recruitment; Size-principle; Acoustic-reflex; Hearing (Kobler, J.B.) **425**, 372

Serotonin; Analgesia; Nociception; Raphe nucleus; *p*-Chlorophenylalanine; Dorsal spinal cord; Electrochemical detection (Steinman, J.L.) **426**, 297

Axonal transport; Doxorubicin; Anthracycline antibiotic; Dorsal root ganglion; Peripheral nervous system (Borges, L.F.) **426**, 367

Horseradish peroxidase; Fast twitch muscle fiber; Slow twitch muscle fiber; Tibialis anterior muscle; Soleus muscle; Ageing; Rat (Ishihara, A.) **435**, 355

Spinal cord; Membrane resistance; Electrotonic length; Cable model; Time constant; Dendrite (Glenn, L.L.) **435**, 398

Motoneuron connexion

Descending fiber; Unitary excitatory postsynaptic potential; Horseradish peroxidase staining; Quantal analysis (Babalian, A.L.) **407**, 394

Motoneuron degeneration

Neuromuscular; Visuomotor; Skeletal muscle; Lateral rectus muscle (LaVail, J.H.) **404**, 127

Motoneuron excitability

Joint afferent; Motor unit (Baxendale, R.H.) **415**, 353

Motoneuron membrane property

Chronic spinal cord transection (Baker, L.L.) **420**, 333

α -Motoneuron

Enkephalin; Synapse; Spinal cord; Neuropeptide; Electron microscopy (Atsumi, S.) **409**, 187

γ -Motoneuron

Motor control; Spinal cord; Reflex; Muscle afferent; Muscle spindle afferent; Cutaneous afferent; Movement sense (Johansson, H.) **435**, 337

Motor

Ventral tegmental area; Monkey; Single neuron activity; Dopamine; Feeding; Motivation; Vocalization (Nishino, H.) **413**, 302

Motor activity

Amygdala; Amphetamine; Cholinergic agonist; Cholinergic antagonist (Gómez, M.N.) **404**, 304

ORG 2766; ACTH₄₋₁₀; Short-term isolation; Opioid; Naltrexone (Wolterink, G.) **421**, 41

Neuromuscular spindle; Sympathetic nervous system (Grassi, C.) **435**, 15

Motor behavior

Climbing fiber; Purkinje cell; Cerebellar cortex; Arm movement; Primate (Wang, J.-J.) **410**, 323

Substance P; Neurokinin A; Substance K; Tachykinin; Structure-activity relationship (Hall, M.E.) **420**, 82

Deep cerebellar nucleus; Glutamic acid decarboxylase; Cerebellar cortex; Climbing fiber; Purkinje cell; Behavioral recovery; Inferior olive; 3-Acetylpyridine (Sukin, D.) **426**, 82

Motor control

Ventral pallidum; Mediodorsal nucleus of the thalamus; Substantia innominata; Horseradish peroxidase; Electrophysiology (Mogenson, G.J.) **404**, 221

Red nucleus; Rubrospinal; Single unit; Microelectrode; Digit movement; Monkey (Kennedy, P.R.) **417**, 185

Premotor cortex; Supplementary motor cortex; Arm movement (Rea, G.L.) **418**, 58

Spinal reflex; Motor unit; Motoneuron; Electromyography; H-reflex (Sabbahi, M.A.) **423**, 125

γ -Motoneuron; Spinal cord; Reflex; Muscle afferent; Muscle spindle afferent; Cutaneous afferent; Movement sense (Johansson, H.) **435**, 337

Motor cortex

Corticostriatal projection; Autoradiography; Evoked potential; Topographic organization; Cat (Updyke, B.V.) **402**, 365

Central nervous system (CNS) reorganization; Neural plasticity; Sprouting; Age-at-lesion effect; Thalamus; Hemispherectomy (Villablanca, J.R.) **410**, 219

Synaptic potentiation; Motor learning; Motor-sensory interaction

(Sakamoto, T.) **413**, 360

Collateralization; Corticostriate neuron; Sensory cortex; Double labelling (McGeorge, A.J.) **423**, 318

Synaptic plasticity; Conditioning; Intracellular recording; Colchicine; EGTA (Baranyi, A.) **423**, 378

Evoked potential; Amygdala kindling; Systemic penicillin epilepsy; Ventral lateral thalamus; Cat; Sleep-wake cycle (Shouse, M.N.) **425**, 198

Cortical development; Corticospinal; Intracortical microstimulation (ICMS); Antidromic (Porter, L.L.) **436**, 136

Sensory cortex; Association fiber; Synapse formation; Axonal branching (Ichikawa, M.) **437**, 131

Motor deficit

Thalamus; Nucleus ventralis posterolateralis (VPL); Nucleus ventralis lateralis (VL); Sensory cortex (Bornschlegl, M.) **437**, 121

Motor function

1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP); Dopamine; Amine accumulation; Nigrostriatal degeneration (Willis, G.L.) **402**, 269

Aging; Dopamine receptor subtype; Biosynthesis (Henry, J.M.) **418**, 334

Motor learning

Synaptic potentiation; Motor cortex; Motor-sensory interaction (Sakamoto, T.) **413**, 360

Motor nerve

Neuromuscular transmission; Degeneration; Lipid peroxidation; Anti-oxidant (Hall, E.D.) **413**, 175

Electric field; Electrotherapy; Regeneration; Nerve growth; Nerve lesion; Sciatic nerve; Rat (McDevitt, L.) **416**, 308

Motor neuron pool

Lumbosacral plexus; Retrograde labeling; Reflex (Ungar-Sargon, J.) **407**, 117

Motor neurons

Collateral sprouting; Regeneration; Tendon reflex; Plasticity (Ungar-Sargon, J.) **407**, 124

Motor potential

Hippocampal formation; Multiple unit activity (Arezzo, J.C.) **401**, 79

Motor response latency

Conditioning; Associative stimulus; Interstimulus interval (Hirano, T.) **400**, 171

Motor system

Rat; Spinal cord; Antinociception; Morphine; Clonidine; Potentiation; Sensory system (Wilcox, G.L.) **405**, 84

Motor tract stimulation

Motoneuron; Facilitation

(Rossini, P.M.) **415**, 211

Motor unit

Fatigue; Lateral rectus; Retractor bulbi; Split lateral rectus-retractor bulbi; Abducens (Gurahian, S.M.) **415**, 281

Joint afferent; Motoneuron excitability (Baxendale, R.H.) **415**, 353

Spinal reflex; Motoneuron; Electromyography; H-reflex; Motor control (Sabbahi, M.A.) **423**, 125

Motor-sensory interaction

Synaptic potentiation; Motor cortex; Motor learning (Sakamoto, T.) **413**, 360

Moulting cycle

Crustacean; Sinus gland; Electrical potential; Neurosecretion (Chiang, R.G.) **402**, 49

Mouse

Hippocampus; Commissural-associational system; Rat; Cholecystokinin; Immunocytochemistry (Fredens, K.) **401**, 68

Anesthesia; Auditory brainstem response (ABR); Brainstem auditory evoked potential (BAEP); Pentobarbital (Church, M.W.) **403**, 72

N-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP); Serotonin; High-performance liquid chromatography (HPLC); Immunohistochemistry (Hara, K.) **410**, 371

Alcohol; Barbiturate; Benzodiazepine; Ro 15-4513; Bicuculline; Seizure threshold (Nutt, D.J.) **413**, 193

Choline acetyltransferase; Acetylcholinesterase; Aging; Diaphragm; Limb muscle (Washio, H.) **416**, 69

Pineal; Melatonin; *N*-Acetyltransferase; Hydroxindole-*O*-methyltransferase; Serotonin; *N*-Acetylserotonin (Ebihara, S.) **416**, 136

Intracranial self-administration; Morphine; Lateral hypothalamus (Cazala, P.) **416**, 283

Olfactory glomerulus; 2-Deoxyglucose (2-DG); Computer-assisted image analysis (Royet, J.P.) **417**, 1

Insulin; Insulin derivative; Insulin receptor; Centrally mediated hypoglycemia; Lipogenesis (Amir, S.) **418**, 152

Cytochrome oxidase; Succinate dehydrogenase; Rat; Neocortex; Sensory map (Wallace, M.N.) **418**, 178

Analgesia; Morphine; 60-Hz magnetic field; Power line frequency; Health effect (Ossenkopp, K.-P.) **418**, 356

Vanadate; Vanadyl; Insulin; Glucose

transport; Hyperglycemia; Central nervous system; Autonomic nervous system (Amir, S.) **419**, 392

Oligodendrocyte; Myelination; Intracerebral transplantation; Cell migration; Shiverer model (Baulac, M.) **420**, 39

Protein polymorphism; LTW-4; Two-dimensional electrophoresis; Ethanol acceptance; Pharmacogenetics; Inbred strain; Recombinant inbred strain; Alcohol (Goldman, D.) **420**, 220

Dissociated cell culture; Spinal cord; Motoneuron; Choline acetyltransferase; Glutamic acid decarboxylase (Guthrie, P.B.) **420**, 313

Neuropeptide Y (NPY); Memory; Recall; Retention (Flood, J.F.) **421**, 280

[³H]SKF 38393; Dopamine D₁ receptor binding; Autoradiography (Juhász, M.) **423**, 305

Learning; Radial-maze; Hippocampus; Mossy fiber (Crusio, W.E.) **425**, 182

[³H]Muscimol; Barrel field; Autoradiography; γ -Aminobutyric acid (GABA) receptor; Somatosensory cortex (Chmielowska, J.) **425**, 283

1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP); Chemoconvulsion; Electroshock (Fariello, R.G.) **426**, 373

Thyrotropin-releasing hormone; Epinephrine-stimulated hyperglycemia; Thyrotropin-releasing hormone analog; Autonomic nervous system; Insulin (Amir, S.) **435**, 112

Mouse brain

Creatine kinase (CK); Neuron; Zona incerta; Lateral hypothalamic area; Immunohistochemistry (Ikeda, K.) **435**, 348

Mouse brain microsome

Cyclooxygenase; Convulsant (Lysz, T.W.) **408**, 6

Mouse diaphragm

Arachidonate; Sodium pump; Na⁺, K⁺-ATPase; Brain microsome (Vyskočil, F.) **436**, 85

Movement

Pulvinar; Unit activity; Auditory; Behavior; Monkey (Yirmiya, R.) **402**, 93

Somatosensory cortex; Rhesus monkey; Vibration; Corollary discharge (Nelson, R.J.) **406**, 402

Movement detection

Behavior; Electrophysiology; Pharmacology; Picrotoxinin; γ -Aminobutyric acid (GABA); Fly; *Drosophila* (Bülthoff, H.) **407**, 152

Movement sense

γ -Motoneuron; Motor control; Spinal cord; Reflex; Muscle afferent; Muscle

spindle afferent; Cutaneous afferent (Johansson, H.) **435**, 337

MR 2034

Opiate receptor; μ -Receptor; κ -Receptor; Naloxone; Morphine; Corticotropin releasing factor (CRF); Adrenocorticotrophic hormone (ACTH) (Nikolarakis, K.) **421**, 373

α -MSH

β -Endorphin; Somatostatin (SRIF); Median eminence (ME); In vitro incubation (Aguila, M.C.) **417**, 127

α -MSH/NF150 cross-reacting antibody

Peripheral nerve regeneration; 150 kDa neurofilament protein; Immunocytochemistry; Neurotrophic melanocortin (Verhaagen, J.) **404**, 142

Mu opioid peptide

Opioid binding; Hippocampus; Kindling; Autoradiography; Delta opioid peptide (Crain, B.J.) **412**, 343

Mudpuppy

Amino acid; Aminobutyric acid; Glutamate; Retina; Retinal ganglion cell; Synaptic receptor (Arkin, M.S.) **426**, 142

Müller cell

Photoreceptor; Opsin; Monoclonal antibody; Immunocytochemistry; Electron microscopy; Cell interaction (Akagawa, K.) **437**, 298

Multi-unit activity

Posterior cingulate cortex; Electroencephalographic spike; Theta rhythm; Transcallosal evoked potential; Fast oscillation; Slow-wave sleep; Rapid-eye-movement sleep (Leung, L.-W.S.) **407**, 68

Multidimensional scaling

Taste; Sensory coding; Toxicity; LD₅₀; Nucleus tractus solitarius; Electrophysiology (Scott, T.R.) **414**, 197

Multiple enzyme form

Glutamate decarboxylase; GABA synthesis (Spink, D.C.) **421**, 235

Multiple opioid receptor

Alzheimer's disease; Human brain; Radioreceptor assay (Hiller, J.M.) **406**, 17

Multiple sclerosis

Cerebrospinal fluid; Cholecystokinin; Neuropeptide; Radioimmunoassay (Bryld, E.) **409**, 364

Multiple unit activity

Hippocampal formation; Motor potential (Arezzo, J.C.) **401**, 79

Multisensory interaction

Superior colliculus; Sensorimotor integration; Premotor discharge; Saccadic eye movement (Peck, C.K.) **420**, 162

Muramyl peptide

Peptidoglycan; Mass spectrometry;

- Sleep; Rabbit; Fever (Krueger, J.M.) **403**, 249
- Slow-wave sleep; Rapid eye movement (REM) sleep; Brain temperature; Electroencephalogram (EEG); Fever (Krueger, J.M.) **403**, 258
- Muscarinic**
- Theta; Hippocampal brain slice; Carbachol; Electroencephalogram (EEG) (Konopacki, J.) **405**, 196
- Inositol phosphate metabolism; Receptor; Serotonergic; Retina (Cutcliffe, N.) **421**, 95
- Muscarinic acetylcholine receptor**
- Cholinergic neurotransmission; Irreversible muscarinic acetylcholine antagonist; Propylbenzilylcholine mustard (PrBCM); Passive avoidance; Memory deficit; Learning process; Alzheimer's disease (Fukuchi, I.) **400**, 53
- M₁- and M₂-receptors; Ontogeny; Rat brain; In vitro autoradiography (Miyoshi, R.) **420**, 302
- Muscarinic cholinergic receptor**
- Cultured caudate putamen nucleus; [³H]Scopolamine; Binding assay; Excitatory postsynaptic current; Electrophysiological recording (Usami, K.) **420**, 167
- Cerebral cortex; Carbamylcholine; Inositol phosphate; Pirenzepine; AF-DX 116 (Smith, T.L.) **420**, 362
- Stress; Quinuclidinyl benzilate (QNB) binding; Supersensitivity; Regional response (Takayama, H.) **436**, 291
- Muscarinic receptor**
- Sympathetic ganglion; Sucrose-gap; Slow inhibitory postsynaptic potential (IPSP); Slow excitatory postsynaptic potential (EPSP); Bullfrog (Yavari, P.) **400**, 133
- Aging; Dopamine receptor; D₁ receptor; D₂ receptor (Rinne, J.O.) **404**, 162
- Pirenzepine; Carbamylcholine; Scopolamine; Autoradiography; Quinuclidinyl benzilate (Messer Jr., W.S.) **407**, 27
- Pirenzepine; Scopolamine; Tolerance; Quinuclidinyl benzilate; Autoradiography (Messer Jr., W.S.) **407**, 46
- Nicotine; Chronic treatment; High-affinity site; Cerebral cortex; Carbamylcholine (Yamanaka, K.) **409**, 395
- Haloperidol; Cerebral cortex; Brainstem; Adrenoceptor; GABA_A receptor; Benzodiazepine receptor (Pazo, J.H.) **414**, 405
- Autoradiography; Adenosine receptor; Cerebral ischemia; Hippocampus; Septal nucleus; Striatum (Onodera, H.) **415**, 309
- Calcium antagonist; M₁-receptor; Rat cerebral cortex (Katayama, S.) **422**, 168
- Alzheimer's disease; Nicotinic receptor; [³H]Acetylcholine binding; Agonist binding (Kellar, K.J.) **436**, 62
- Myelin; Phosphoinositide; Myelin phosphoinositide (Larocca, J.N.) **436**, 357
- Muscarinic response**
- Pituitary cell; Action potential; Potassium channel (Hedlund, B.) **402**, 311
- Cyclic AMP; Cyclic GMP; Acetylcholine; Dopamine; Phosphodiesterase inhibitor (Tsunoo, A.) **407**, 55
- Muscimol**
- γ-Aminobutyric acid; Bicuculline; 3-Mercaptopropionic acid; Isoniazid; Hypothalamus; Sympathetic nervous system; Heart rate; Blood pressure (DiMicco, J.A.) **402**, 1
- γ-Aminobutyric acid (GABA); Blood pressure; Nucleus tractus solitarius; Vasopressin; Neurotransmitter; Hypertension (Catelli, J.M.) **403**, 279
- Partial epilepsy; Premotor cortex; Striatum; Substantia nigra; γ-Aminobutyric acid (GABA) (Ono, K.) **405**, 183
- γ-Aminobutyric acid; Hypothalamus; Defense reaction; Approach; Avoid; Aversive drive; Bicuculline (Shekhar, A.) **420**, 118
- Circling behavior; Honey bee; γ-Aminobutyric acid; Acetylcholine; Picrotoxin; Flaxedil; Nicotine; Lesion (Michelsen, D.B.) **421**, 14
- Thalamus; Catalepsy; Baclofen; δ-Aminovalerate; Bicuculline (Wüllner, U.) **422**, 129
- GABA_A receptor; Circle of Willis artery; Pial-arachnoid vessel; Autoradiography; Rat (Napoleone, P.) **423**, 109
- γ-Aminobutyric acid (GABA); Progabide; Glucose utilization; [¹⁴C]2-Deoxyglucose technique; Central serotonergic neuron (Cudennec, A.) **423**, 162
- 2-Deoxyglucose; Striatal lesion; Apomorphine (Kelly, P.A.T.) **425**, 290
- [³H]Muscimol**
- Mouse; Barrel field; Autoradiography; γ-Aminobutyric acid (GABA) receptor; Somatosensory cortex (Chmielowska, J.) **425**, 283
- Muscle afferent**
- Spinal cord; Dorsal horn; Nociceptive neuron; Inhibition; GABA; Bicuculline (Morris, R.) **401**, 365
- Exercise; Lactate; Skin afferent; Cardiovascular reflex (Gregory, J.E.) **404**, 375
- γ-Motoneuron; Motor control; Spinal cord; Reflex; Muscle spindle afferent; Cutaneous afferent; Movement sense (Johansson, H.) **435**, 337
- Muscle denervation**
- Bungarotoxin; Tetrodotoxin; Cyclic AMP-dependent protein kinase II; Acetylcholine receptor (Held, I.R.) **407**, 341
- Muscle receptor**
- Proprioception; Position sense; Joint receptor; Cutaneous receptor (Ferrell, W.R.) **425**, 369
- Muscle relaxation**
- Grayanotoxin; Central depression; Tetrodotoxin; Locomotor activity (Ohgaki, T.) **425**, 364
- Muscle spindle**
- Nerve regeneration; Skeletofusimotor axon (Scott, J.J.A.) **401**, 152
- Rat; Spindle afferent; Electron microscopy (Walro, J.M.) **425**, 311
- Muscle spindle afferent**
- γ-Motoneuron; Motor control; Spinal cord; Reflex; Muscle afferent; Cutaneous afferent; Movement sense (Johansson, H.) **435**, 337
- Muscle tone**
- α-Kainic acid; γ-D-Glutamylaminomethylsulphonic acid; Substantia nigra; Caudate-putamen; Catalepsy; Turning; Electromyogram; 6-Hydroxydopamine; Ibotenic acid (Turski, L.) **424**, 37
- Muscular rigidity**
- Zona incerta-lateral hypothalamus; Morphine; Catalepsy; Electromyogram; Picrotoxin; Bicuculline methiodide (Wardas, J.) **408**, 363
- Mutant El mouse**
- Primary cultured neuron; Epilepsy; Ganglioside GD₃; Immunocytochemistry (Sugaya, E.) **406**, 270
- Mutant mouse**
- Purkinje cell degeneration; Spontaneous alternation; Habituation; Cerebellum (Lalonde, R.) **411**, 187
- Adrenergic receptor; Locus coeruleus; Hyperinnervation (Levitt, P.) **418**, 174
- Myasthenia gravis**
- Glucocorticoid; Dexamethasone; Acetylcholine; Physostigmine; Neuromuscular junction (Veldsema-Currie, R.D.) **400**, 196
- Myelin**
- Shiverer mouse; Na⁺, K⁺-ATPase; Myelin-associated glycoprotein; Immunocytochemistry; Central nervous system; Trigeminal nerve (Sheedlo, H.J.) **415**, 105
- Ranvier's node; Wallerian

degeneration; Frog; Sciatic nerve; Freeze-fracturing; Demyelination; Axolemma (Ishise, J.) **418**, 85

Quaking mouse; Calcium; Calcium-activated neutral proteinase; 2',3'-Cyclic nucleotide 3'-phosphohydrolase; Cytosol (Banik, N.L.) **435**, 57

Phosphoinositide; Muscarinic receptor; Myelin phosphoinositide (Larocca, J.N.) **436**, 357

Myelin deficient rat

Optic nerve; Axonal undercoating (Blakemore, W.F.) **403**, 361

Myelin phosphoinositide

Myelin; Phosphoinositide; Muscarinic receptor (Larocca, J.N.) **436**, 357

Myelin sheath

Rabbit; Central nervous system (CNS); Ranvier's node; Marchi staining; Density gradient centrifugation (Corneliusson, O.) **416**, 43

Guillain-Barré syndrome; Polyradiculoneuritis; Peripheral nerve disease; Schwann cell; Tissue culture (Birchem, R.) **421**, 173

Myelin-associated glycoprotein

Schwann cell line; Simian virus 40 (SV40) transformation; Myelin-protein; P₀ protein; P₀ mRNA; 2':3'-Cyclic nucleotide 3'-phosphodiesterase; Galactocerebroside; Sulfatide (Chen, G.L.) **414**, 35

Shiverer mouse; Na⁺, K⁺-ATPase; Immunocytochemistry; Central nervous system; Myelin; Trigeminal nerve (Sheedlo, H.J.) **415**, 105

Myelin-deficient rat

Shaking pup; Mosaicism; Optic nerve; Spinal cord (Duncan, I.D.) **402**, 168

Myelin-protein

Schwann cell line; Simian virus 40 (SV40) transformation; P₀ protein; P₀ mRNA; Myelin-associated glycoprotein; 2':3'-Cyclic nucleotide 3'-phosphodiesterase; Galactocerebroside; Sulfatide (Chen, G.L.) **414**, 35

Myelinated axon

Renal afferent nerve: antidromic activation; Unmyelinated axon; Dorsal root (Knuepfer, M.M.) **435**, 167

Myelinated nerve fiber

Axon; Potassium channel; Development (Rasminsky, M.) **411**, 167

Myelination

Filipin; Cholesterol; Membrane fluidity; Intramembranous particle (IMP); Axolemma; Lipid domain (Fields, R.D.) **404**, 21

Mouse; Oligodendrocyte; Intracerebral transplantation; Cell migration; Shiverer model (Baulac, M.) **420**, 39

Schwann cell; Monoclonal antibody;

Cyclic AMP; Surface membrane molecule (Rostami, A.) **425**, 205

Neurofilament; Phosphorylation; Retina; Optic nerve (Sloan, K.E.) **437**, 365

Myenteric neuron

Cell culture; Rat; Co-transmitter; Acetylcholine; Vasoactive intestinal peptide; Somatostatin (Willard, A.L.) **422**, 163

Myoclonus

Cysteamine; Kindling; Midazolam; Seizure; Long-term inhibition (Cottrell, G.A.) **412**, 161

Mytilus

Peptide; Pedal ganglion; Anterior byssus retractor muscle (ABRM); Catch tension; Relaxation; Inhibition (Hirata, T.) **422**, 374

N

N-(2-Chloroethyl)-N-ethyl-2-bromobenzylamine (DSP₄)

Adrenaline release; Noradrenaline release; Intracerebral dialysis; Phenylethanolamine-N-methyltransferase (PNMT) inhibitor; Idazoxan; Monoamine oxidase (MAO) inhibitor (Routledge, C.) **426**, 103

β-N-methylamino-L-alanine (BMAA)

β-N-Oxalylamino-L-alanine (BOAA); *Lathyrus*; *Cycas*; Excitotoxin (Nunn, P.B.) **410**, 375

[³H]N-n-propylnorapomorphine

Dopamine receptor; Striosome; Dipping autoradiography; Acetylcholinesterase histochemistry; In vivo ligand binding (Loopuijt, L.D.) **405**, 405

S(+)-Methylenedioxy-N-n-propylnorapomorphine

Dopamine; Limbic system (Campbell, A.) **403**, 393

Na-current

Supraoptic neuron; Cell culture; Voltage clamp; Ba-current (Cobbett, P.) **409**, 175

Na⁺ channel

Endogenous peptide; Tetrodotoxin (Lombet, A.) **417**, 327

Na⁺, K⁺-ATPase

[³H]Ouabain binding; Pineal gland; Autoradiography (Caspers, M.L.) **409**, 335

Na⁺, K⁺ Transport

Rat skeletal muscle;

Deoxycorticosterone acetate (DOCA) hypertension; Denervation; Central nervous system (CNS) (Nagaoka, R.) **410**, 283

Na⁺, K⁺-ATPase

Ouabain binding; Deafferentation; Olfactory tubercle (Swann, A.C.) **404**, 323

Brain; Serotonin receptor; Regulation (Hernández R., J.) **408**, 399

Shiverer mouse; Myelin-associated glycoprotein; Immunocytochemistry; Central nervous system; Myelin; Trigeminal nerve (Sheedlo, H.J.) **415**, 105

Estrous cycle; Ovariectomy; Estrogen; Mediobasal hypothalamus; Preoptic-suprachiasmatic region; Norepinephrine (Rodriguez del Castillo, A.) **416**, 113

Cl⁻-ATPase; Motoneuron; Spinal cord; Rat (Inagaki, C.) **419**, 375

Electrogenic pump; Extracellular K⁺; Glial cell; Epilepsy; Cerebral cortex (Onozuka, M.) **420**, 259

Arachidonate; Sodium pump; Brain microsome; Mouse diaphragm (Vyskočil, F.) **436**, 85

Na⁺/Ca²⁺ exchange

Calcium channel; Intracellular calcium; Ageing (Martínez, A.) **435**, 249

Na⁺/H⁺ exchange

Cytotoxic edema; Cytoplasmic pH; Cell swelling; Glioma cell; Astrocyte; Amiloride (Jakubovicz, D.E.) **435**, 138

Na⁺-Ca²⁺ antiporter

Ca²⁺ transport; Ethanol; Synaptic membrane; Chronic alcohol; Ion transport (Michaelis, M.L.) **414**, 239

Na⁺-Ca²⁺ exchange

Botulinum type A toxin; Ouabain; Neuromuscular junction; Transmitter release; Presynaptic mechanism (Molgo, J.) **410**, 385

NaCl

Intracerebroventricular; Angiotensin II; Body fluid balance; Operant behavior; Drinking behavior (Weisinger, R.S.) **420**, 135

NADPH diaphorase

Neurohypophysis; Vasopressin; Oxytocin; Functional activity (Sagar, S.M.) **400**, 348

Nalbuphine

Morphine; Oxymorphone; Cerebral glucose utilization; Opioid receptor; Analgesia; Thalamus; Nucleus of the spinal tract of the trigeminal nerve (Fanelli, R.J.) **422**, 257

Nalmefene

Memory; Retention; Opioid; Naloxone (Flood, J.F.) **422**, 218

Naloxone

Spinal dorsal horn; Awake

- neurophysiology (Collins, J.G.) **401**, 95
 $[^3\text{H}]$ Cyclofoxy; Positron emission tomography (PET); Opiate receptor; In vivo autoradiography;
 Autoradiography; Cyclofoxy;
 Radiolabeled opiates; Naltrexone; Rat brain; Opiate receptor distribution;
 6-Deoxy-6 β -fluoronaltrexone (Ostrowski, N.L.) **402**, 275
- Arthritic rat; Bidirectional effect of naloxone; Cross-tolerance; Morphine (Kayser, V.) **405**, 123
- Rat habenula; Analgesia; Morphine; Pain (Mahieux, G.) **406**, 118
- Regional cerebral blood flow; $[^{14}\text{C}]$ Iodoantipyrine; Quantitative autoradiography; Heroin; Rat (Trusk, T.C.) **406**, 238
- Corticotropin releasing factor; Third cerebral ventricle; Sexual behaviour; Male rat (Sirinathsinghji, D.J.S.) **407**, 185
- Pentobarbital; Spinal cord; Nociception; Bicuculline; Picrotoxin; Intrathecal; GABAergic transmission (Stein, C.) **407**, 307
- Growth hormone; Central somatostatin; Phenoxylbenzamine; Picrotoxin (Murakami, Y.) **407**, 405
- Corticotropin-releasing factor (CRF); Epilepsy; Verapamil (Marrosu, F.) **408**, 394
- Hippocampus; Electrical stimulation; Spatial memory (Collier, T.J.) **409**, 316
- Opioid analgesia; Non-opioid analgesia; Stress; ICI 154,129; β -Funaltrexamine (B-FNA); Snail; Evolution (Kavaliers, M.) **410**, 111
- Medial preoptic area; Ventral noradrenergic tract; Luteinizing hormone; Testosterone; Androgenization; Sexual differentiation; Rat (Grossmann, R.) **415**, 205
- Calcium channel; Enkephalin receptor; NG 108-15; Intracellular Ca^{2+} ; Ba current (Shimahara, T.) **415**, 357
- Analgesia; Calcium channel antagonist; Phe-Met-Arg-Phe- NH_2 (FMRFamide); Morphine; Stress; Stress-induced analgesia; Immobilization; Opioid analgesia (Kavaliers, M.) **415**, 380
- Opioid peptide; Pulsatile; Luteinizing hormone; Estradiol; Progesterone; Morphine (Babu, G.N.) **416**, 235
- Spinal trigeminal nucleus; Subnucleus oralis; Subnucleus caudalis; Tooth pulp; Enkephalin; Inhibition (Ujihara, H.) **418**, 52
- Receptor autoradiography; Upregulation; μ Opioid receptor; δ Opioid receptor; κ Opioid receptor; Amygdala (Paden, C.M.) **418**, 349
- Sex difference; Opiate receptor; Golden hamster; *Mesocricetus auratus*; Hypothalamus; Brain differentiation; Sexual dimorphism;
 $[\text{D-Ala}^2, \text{D-Leu}^5]$ Enkephalin binding; Sexually dimorphic nucleus (Ostrowski, N.L.) **421**, 1
- Opiate receptor; μ -Receptor; κ -Receptor; Morphine; MR 2034; Corticotropin releasing factor (CRF); Adrenocorticotrophic hormone (ACTH) (Nikolarakis, K.) **421**, 373
- Tooth pulp; Nociception; Trigeminal subnucleus interpolaris; Cat; Conditioning stimulation (Pertovaara, A.) **422**, 205
- Memory; Retention; Opioid; Nalmefene (Flood, J.F.) **422**, 218
- Analgesia; Stimulation-produced analgesia; Opioid peptide; Nucleus tractus solitarius; Pain; Pain-inhibition (Lewis, J.W.) **424**, 65
- Morphine; Naltrexone; Antinociception; Opioid receptor; Upregulation (Stevens, C.W.) **425**, 388
- Activity; Stress-induced analgesia; Immobilization; Opioid analgesia; ICI 154, 129; Deer mice; *Peromyscus maniculatus*; Sex; Genetic; Island-Mainland population (Kavaliers, M.) **425**, 49
- Opiate; Morphine; Opiate withdrawal; Clonidine; Norepinephrine; Skin temperature (Katovich, M.J.) **426**, 55
- Neurohypophysis; Oxytocin release; Potassium channel; Opioid; 4-Aminopyridine; Tetraethylammonium ion (Racké, K.) **436**, 371
- Dynorphin A; Spinal cord; Blood flow; Opioid; Paralysis (Long, J.B.) **436**, 374
- Naltrexone**
 $[^3\text{H}]$ Cyclofoxy; Positron emission tomography (PET); Opiate receptor; Naloxone; In vivo autoradiography; Autoradiography; Cyclofoxy; Radiolabeled opiates; Rat brain; Opiate receptor distribution; 6-Deoxy-6 β -fluoronaltrexone (Ostrowski, N.L.) **402**, 275
- Pregnancy; Opioid analgesia; Spinal cord (Sander, H.W.) **408**, 389
- Endogenous opioid; Opioid receptor; Cerebellum; Methionine-enkephalin; Growth; Autoradiography; Cell proliferation (Zagon, I.S.) **412**, 68
- Tail flick; Pentobarbital; Intrathecal; Morphine; Transcutaneous electrical nerve stimulation (TENS); Electroacupuncture (Peets, J.M.) **416**, 301
- Opiate physical dependence; Conditioned place preference; Withdrawal distress; Quaternary naltrexone; Morphine pellet; Abstinence motivation (Mucha, R.F.) **418**, 214
- ORG 2766; ACTH_{4-10} ; Motor activity; Short-term isolation; Opioid (Wolterink, G.) **421**, 41
- Morphine; Naloxone; Antinociception; Opioid receptor; Upregulation (Stevens, C.W.) **425**, 388
- Narcolepsy**
 Receptor; Dopamine; Sleep (Bowersox, S.S.) **402**, 44
- Nasal cavity**
 Olfaction; Horseradish peroxidase; Topography; Bulbar glomerulus (Astic, L.) **424**, 144
- Nasotemporal overlap**
 Visual cortex; Corpus callosum; Binocular interaction; Stereopsis; Disparity-sensitive neuron; Depth perception; Ocular dominance; Cat (Gardner, J.C.) **413**, 60
- Neocortex**
 Alzheimer's disease; Serotonin; 5-Hydroxyindoleacetic acid; Noradrenaline;
 3-Methoxy-4-hydroxyphenylglycol; Dopamine; Dihydroxyphenylacetic acid; Homovanillic acid; Choline acetyltransferase (Palmer, A.M.) **401**, 231
- Choline acetyltransferase; Nucleus basalis; Somatostatin; Noradrenaline; 5-Hydroxytryptamine; Excitotoxin; Alzheimer's disease (Fine, A.) **406**, 326
- Aminopyridine; Epilepsy; Bursting activity; Giant PSP (Szente, M.) **413**, 368
- Alzheimer's disease; Catecholamine; Dopamine; Noradrenaline; Acetylcholine; Human brain (Palmer, A.M.) **414**, 365
- Neurofilament; Human; Entorhinal cortex; Subiculum; Dementia; Neurofibrillary tangle (Morrison, J.H.) **416**, 331
- Seizure-like discharge; Epilepsy; *N*-Methyl-D-aspartate (Avoli, M.) **417**, 199
- Cytochrome oxidase; Succinate dehydrogenase; Rat; Mouse; Sensory map (Wallace, M.N.) **418**, 178
- Dorsal noradrenergic bundle; 6-Hydroxydopamine; Noradrenaline; α_2 -Adrenoceptor; β_1 -Adrenoceptor; Rat (Dooley, D.J.) **420**, 152
- Phorbol ester; Kinase C; Intracellular response; Chronic cat (Baranyi, A.) **424**, 396
- Neocortical pyramidal cell**
 Paroxysmal depolarization shift; Ca-antagonist, D890 (Deisz, R.A.) **422**, 63
- Neonatal brain**
 Primate; Hippocampus; Granule cell; Golgi method; Fetal brain (Seress, L.) **405**, 169

Astroglial cell; Tissue culture;
Dipeptidyl peptidase; Mercurial;
Dipeptide (Stevens, B.R.) **406**, 113

Neonatal cortical lesion

Intracortical microstimulation;
Corticospinal plasticity; Pyramidotomy
(Kartje-Tillotson, G.) **415**, 172

Neonatal swine

Phrenic nerve; Power spectra;
Respiratory rhythm generator (RRG);
High-frequency oscillation (HFO);
Medium frequency oscillation (MFO);
Development (Cohen, H.L.) **426**, 179

Neonate

Kindling antagonism; Norepinephrine;
6-Hydroxydopamine;
Brainstem-cerebellum
hyperinnervation (Applegate, C.D.)
407, 212

Hyperalgesia; β -Endorphin;
Morphiceptin; Tyr-MIF-1
(Zadina, J.E.) **409**, 10

Mammalian neuron; Single channel;
Potassium channel (Simonneau, M.)
412, 224

Neostriatal slice

1-Methyl-4-phenyl-2,3-
dihydropyridinium (MPDP⁺);
1-Methyl-4-phenyl-1,2,3,6-
tetrahydropyridine (MPTP);
1-Methyl-4-phenylpyridinium (MPP⁺)
(Wilson, J.A.) **425**, 376

Neostriatum

Receptor; Opioid; Enkephalin;
Radioautography; Electron microscopy
(Hamel, E.) **401**, 239

Nucleus accumbens; Dopamine;
cis-Flupenthixol; Locomotor activity;
Rat (Ahlenius, S.) **402**, 131

Tyrosine hydroxylase; Glutamate
decarboxylase; Rat;
Immunohistochemistry; Synaptic input
(Kubota, Y.) **406**, 147

Striatonigral neuron; D₁ receptor;
Substantia nigra; Dopamine; Quinolinic
acid; [¹²⁵I]SCH 23982; SCH 23390;
Denervation (Altar, C.A.) **410**, 1

Alzheimer's disease; Senile dementia;
Large neuron; Morphometry
(Oyanagi, K.) **411**, 205

Somatosensory; Hyperstriatum;
Thalamus; Wheatgerm
agglutinin-horseradish peroxidase;
Avian (Wild, J.M.) **412**, 205

Embryonic graft; Transplantation;
Dendritic morphology; Spiny neuron;
Morphometry; Rat (Zemanick, M.C.)
414, 149

Antidromic activation; Dopaminergic
neuron; Medial forebrain bundle; In
vivo voltammetry; Unit activity
(Kuhr, W.G.) **418**, 122

Nucleus accumbens; D₂-receptor;
DA/ACh-release; Cyclic AMP

(Stoof, J.C.) **423**, 364

Embryonic graft; Transplantation;
Connectivity; Horseradish peroxidase;
Rat (Walker, P.D.) **425**, 34

Serotonin; Quantified distribution;
Immunohistochemistry;
Radioautography (Soghomonian, J.-J.)
425, 85

β -Adrenergic receptor; Synaptosome;
Somatosensory cortex; Anterior
cingulate cortex; Postsynaptic density;
Membrane recycling (Aoki, C.)
437, 264

Nerve agent

Soman; O-ethyl-S-(2-diisopropyl-
aminoethyl)-methylphosphonothioate
(VX); Convulsion; Amygdala; Brain
damage; Neuropathology; Excitotoxic;
Microinjection (McDonough Jr., J.H.)
435, 123

Nerve cell count

Nucleus basalis of Meynert;
Alzheimer's disease (Doucette, R.)
422, 357

Nerve cell membrane

S-100 protein; ³⁶Cl permeability;
 γ -Aminobutyric acid (GABA)
(Hydén, H.) **404**, 405

Nerve conduction velocity

Hypoxia; Experimental Neuropathy;
p-Bromophenylacetylurea; Slow axonal
transport; Ischemic conduction failure
(Nagata, H.) **422**, 319

Nerve crush

Axonal reaction; Axon number;
Regeneration (Jenq, C.-B.) **409**, 250

Fast axonal transport; Nerve
regeneration; Conditioning lesion;
Protein; 2D-Gel; Frog (Perry, G.W.)
423, 1

Nerve fiber cross-talk

Afterdischarge; Nerve injury; Nerve
pathophysiology; Neuroma; Pain
(Lisney, S.J.W.) **415**, 122

Nerve graft

Axonal elongation; Thalamocortical
connection; Somatosensory pathway;
Tracing technique; Horseradish
peroxidase (Cossu, M.) **415**, 399

Nerve growth

Electric field; Electrotherapy; Motor
nerve; Regeneration; Nerve lesion;
Sciatic nerve; Rat (McDevitt, L.)
416, 308

Nerve growth factor

Antibody to nerve growth factor;
Axonal sprouting; Unmyelinated axon
(Hulsebosch, C.E.) **411**, 267

Cholinergic development; Neurotrophic
factor; Septal explant culture
(Bostwick, J.R.) **422**, 92

Axonal regeneration; Neurite growth;
Peripheral nerve (Sandrock Jr., A.W.)
425, 360

Na-K pump; Membrane potential;
Skeletal muscle; Culture (Brodie, C.)
435, 393

Nerve growth factor (NGF)

Conditioned medium; L-cell; Binding
protein; 7S NGF (Siminoski, K.)
435, 273

Schwann cell; Nerve growth factor
receptor (Yasuda, T.) **436**, 113

Nerve growth factor receptor

Cerebrospinal fluid transport; Basal
forebrain; Cholinergic neuron;
Cholinergic basal forebrain;
Monoclonal antibody
(Schweitzer, J.B.) **423**, 309

Schwann cell; Nerve growth factor
(NGF) (Yasuda, T.) **436**, 113

Nerve injury

Afterdischarge; Nerve fiber cross-talk;
Nerve pathophysiology; Neuroma; Pain
(Lisney, S.J.W.) **415**, 122

Nerve lesion

Electric field; Electrotherapy; Motor
nerve; Regeneration; Nerve growth;
Sciatic nerve; Rat (McDevitt, L.)
416, 308

Nerve pathophysiology

Afterdischarge; Nerve fiber cross-talk;
Nerve injury; Neuroma; Pain
(Lisney, S.J.W.) **415**, 122

Nerve regeneration

Tetrodotoxin; Axonal transport;
Synaptogenesis; Axonal growth;
Tubulin; Actin; Goldfish
(Antonian, E.) **400**, 403

Muscle spindle; Skeletofusomotor axon
(Scott, J.J.A.) **401**, 152

Pacinian corpuscle; Inner core;
Extracellular matrix; Basal lamina;
Freezing (Ide, C.) **413**, 155

Chamber model; Laminin;
Testosterone; Ganglioside; Catalase
(Müller, H.) **413**, 320

Nucleotide; Rat sciatic nerve
(Sjöberg, J.) **415**, 270

Central nervous system; Conditioned
media (Lavie, V.) **419**, 166

Fast axonal transport; Conditioning
lesion; Protein; Nerve crush; 2D-Gel;
Frog (Perry, G.W.) **423**, 1

Nerve terminal pool

Glutamate; Aspartate;
Immunohistochemistry; Rat limbic
system (Yoshida, M.) **410**, 169

Nerve transection

Axonal regeneration; Permeable tube
(Jenq, C.-B.) **408**, 239

Guidance channel; Axonal
regeneration; Piezoelectric tube
(Aebischer, P.) **436**, 165

Nervous system

Thiamine; Thiamine phosphoester;
Chronic ethanol; Compartmental

- model; Metabolism in vivo (Rindi, G.) **413**, 23
- Nervous system injury**
PH; pO_2 ; Brain cell culture; Neuron; Astrocyte; Differentiation; Neurofilament protein; Glial fibrillary acidic protein (Bologa, L.) **411**, 282
- Nervous system-specific protein**
S54 protein; Dendrite; Synapse; Immunoelectron microscopy; Monoclonal antibody (Shirao, T.) **413**, 374
- Nervus terminalis**
Elasmobranch; Efferent impulse; Ganglion activity; Suppression (White, J.) **400**, 159
- Neural**
Respiration; Intracellular; Spinal cord; Cat (Duffin, J.) **435**, 351
- Neural excitability**
Hippocampal slice; Tissue hypoxia; Vasoconstriction (Topple, A.) **406**, 308
- Neural graft**
Transplant; Obesity; Ventromedial hypothalamus; Lesion; Hyperphagia; Feeding; Consummatory behavior (Mickley, G.A.) **424**, 239
- Neural lobe**
5,7-Dihydroxytryptamine; Dorsomedial nucleus of the hypothalamus; Electrical stimulation; 5-Hydroxytryptamine synthesis; Intermediate lobe; Pituitary gland; Raphe nuclei (Shannon, N.J.) **416**, 322
- Neural modulation**
Acetylcholine; Rat; Somatic sensory cortex (Donoghue, J.P.) **408**, 367
- Neural plasticity**
Classical conditioning; Eyelid response; Cerebellum; Brainstem; Lesion; Learning; Rabbit (Mauk, M.D.) **403**, 89
Central nervous system (CNS) reorganization; Sprouting; Age-at-lesion effect; Thalamus; Motor cortex; Hemispherectomy (Villablanca, J.R.) **410**, 219
Protein phosphorylation; Protein kinase C; Rhesus monkey; Visual processing; Two-dimensional electrophoresis (Nelson, R.B.) **416**, 387
- Neural projection**
Wing mutant; Horseradish peroxidase (HRP) labeling; Neurogenetics (Inestrosa, N.C.) **416**, 248
- Neural transplant**
Catecholamine; Synapse; Immunocytochemistry; Ultrastructure (Silverman, W.F.) **412**, 375
Adrenal medulla; Vascular permeability; Blood-brain barrier; Macromolecule; Catecholamine (Rosenstein, J.M.) **414**, 192
- Neural transplantation**
Cryopreservation; Primate; Dopamine; Culture (Collier, T.J.) **436**, 363
- Neural-cell adhesion molecule**
Oligodendrocyte; Astrocyte; Glycosylation (Bhat, S.) **412**, 144
- Neurite**
Plasticity; Lysosome; Swainsonine; Storage disease; Enzyme replacement therapy (Walkley, S.U.) **410**, 89
Somatostatin; Sprouting; Regeneration; Peptide; Plasticity; Mollusc (Bulloch, A.G.M.) **412**, 6
Microtubule; Neuron; Axon; Compartmentation; Ribosome (Baas, P.W.) **420**, 73
Transection; Axotomy; Injury; Trauma; Calcium; Retraction; Death (Lucas, J.H.) **425**, 384
- Neurite growth**
Nerve growth factor; Axonal regeneration; Peripheral nerve (Sandrock Jr., A.W.) **425**, 360
- Neurite outgrowth**
Tetrodotoxin; Fetal neuron; Cerebral cortex (Van Huizen, F.) **408**, 271
Glial cell; Insect; Central nervous system explant; Electron microscopy (Vanhems, E.) **411**, 129
- Neurite regeneration**
Gastropod neuron; Somatostatin; Calcitonin; Growth factor (Grimm-Jørgensen, Y.) **403**, 121
- Neurite-promoting factor**
Goldfish optic nerve; Conditioned medium; Neuronal cell culture (Finklestein, S.P.) **413**, 267
- Neuroanatomic tracing**
Cat; Lateral cervical nucleus; Ultrastructure; Spinal afference (Svensson, B.A.) **423**, 229
- Neuroanatomical differentiation**
Ventral tegmental area; Occipital cortex; Forebrain; Substantia nigra pars compacta; Horseradish peroxidase; Retrograde double labeling; Rat (Takada, M.) **418**, 27
- Neuroanatomical tracing**
Phaseolus vulgaris-leucoagglutinin (PHA-L); Double-label immunocytochemistry; Histamine; Histidine decarboxylase; Prefrontal cortex; Hypothalamus; Limbic system (Wouterlood, F.G.) **406**, 330
- Neuroaxonal dystrophy**
Autonomic (sympathetic) neuropathy; Diabetes; Dopamine- β -hydroxylase; Axonal transport (Schmidt, R.E.) **401**, 142
- Neurobehavior**
Colchicine; Hippocampus; Dentate gyrus (Tilson, H.A.) **408**, 163
- Neuroblastoma**
Autoradiography; Differentiation; Choline acetyltransferase; Cognition; Transplantation (Kordower, J.H.) **417**, 85
Maitotoxin; Calcium channel; Membrane current; Calcium antagonist (Yoshii, M.) **424**, 119
Pyrethroid; Neurotoxin; Sodium channel gating; Temperature (Ruigt, G.S.F.) **437**, 309
- Neuroblastoma cell line**
Calcium overload; Energy metabolism; Amino acid incorporation; Calcium uptake; Protein synthesis (Abe, K.) **423**, 221
- Neurochemical specificity**
Dopamine; Noradrenaline; Catecholamine; Amine accumulation; 6-Hydroxydopamine (Willis, G.L.) **403**, 15
- Neurochemistry**
Spontaneously hypertensive rat (SHR); Sympathetic ganglion; Neuropeptide; Dopamine; Cyclic nucleotide (Ariano, M.A.) **415**, 115
- Neurodegenerative disorder**
Excitotoxin; Quinolinic acid; Hippocampus; Brain lesion; Gliosis (Speciale, C.) **436**, 18
- Neuroendocrine**
Corticotropin-releasing factor (CRF); Intracellular; Terminal bouton (Rho, J.-H.) **436**, 143
- Neuroendocrine cell**
Immunoglobulin; Supraoptic nucleus; Paraventricular nucleus; Lysosome; Immune-nervous system interaction (Meeker, M.L.) **423**, 45
- Neuroexcitant**
N-Acetylaspartylglutamate (NAAG); Dipeptide; Purkinje cell; Cerebellum (Sekiguchi, M.) **423**, 23
- Neurofibrillary tangle**
Hirano body; Tau protein; Alzheimer's disease; Cytoskeleton; Paired helical filament; Immunocytochemistry (Galloway, P.G.) **403**, 337
Neurofilament; Human; Neocortex; Entorhinal cortex; Subiculum; Dementia (Morrison, J.H.) **416**, 331
- Neurofilament**
Spinal cord injury; Protease inhibitor; Leupeptin; E-64; Morphometry; Fink-Heimer method (Iwasaki, Y.) **406**, 99
Cerebellum; Dendrite; Immunohistochemistry (Shiurba, R.A.) **407**, 205
Human; Neocortex; Entorhinal cortex; Subiculum; Dementia; Neurofibrillary tangle (Morrison, J.H.) **416**, 331
Alzheimer disease; Paired helical filaments; Cytoskeleton; Microtubule associated protein; Immunocytochemistry (Perry, G.) **420**, 233

Monoclonal antibody; Axon sprouting; Thyroid hormone (Gravel, C.) **422**, 327

Axonal transport; Carbon disulfide; Giant axonal neuropathy; Toxic neuropathy (Pappolla, M.) **424**, 272

β , β' -Iminodipropionitrile (IDPN); Excitation, circling and choreiform head and neck movements (ECC) syndrome; Axonal enlargement; Amine metabolism; Neurotoxin (Morandi, A.) **437**, 69

Phosphorylation; Retina; Optic nerve; Myelination (Sloan, K.E.) **437**, 365

Neurofilament protein

Nervous system injury; PH; pO_2 ; Brain cell culture; Neuron; Astrocyte; Differentiation; Glial fibrillary acidic protein (Bologa, L.) **411**, 282

Neurogenetics

Wing mutant; Neural projection; Horseradish peroxidase (HRP) labeling (Inestrosa, N.C.) **416**, 248

Neurogenic control

Vasospasm; Microvessel; Tetrodotoxin; Hippocampal slice (Cach, R.L.) **421**, 370

Neurogenic inflammation

Injury; Hyperalgesia; Spinal hyperactivity; C-Fiber afferent; Sympathetic efferent; Autotomy; Contralateral foot-withdrawal (Coderre, T.J.) **404**, 95

Neuroglia

Astrocyte; Glial fibrillary acidic protein (GFAP); White matter; Spinal cord; Rat (Liuzzi, F.J.) **403**, 385

Neurohypophyseal peptide

Noradrenaline; Peptide/amine interaction; Nucleus tractus solitarius; Blood pressure; Brattleboro rat (Vallejo, M.) **422**, 295

Neurohypophysis

NADPH diaphorase; Vasopressin; Oxytocin; Functional activity (Sagar, S.M.) **400**, 348

Cytochrome; Redox state; Potassium chloride excess; Electrical stimulation; Tetrodotoxin (Harada, E.) **414**, 173

Pituitary gland; Digital imaging technique; Neurosecretion; Exocytosis; Secretory granule; Stimulation-secretion coupling; *Xenopus* (Terakawa, S.) **435**, 380

Oxytocin release; Potassium channel; Naloxone; Opioid; 4-Aminopyridine; Tetraethylammonium ion (Racké, K.) **436**, 371

Neurointermediate lobe

Dopamine synthesis; Fluoxetine; 5-Hydroxytryptamine synthesis; Pituitary gland; Platelets; Tryptophan (Shannon, N.J.) **402**, 287

Basal hypothalamus; Median eminence; D_2 -dopamine receptor; Dopamine

release (Planté, J.F.) **413**, 205

Neurokinin A

Substance P; Substance K; Tachykinin; Motor behavior; Structure-activity relationship (Hall, M.E.) **420**, 82

Neuroleptic

Calcium-activated potassium conductance; Hippocampus; Intracellular recording (Dinan, T.G.) **407**, 159

Neuroleptic drug

D_1 - and D_2 -dopamine receptor; In vivo receptor labeling; Single photon emission computed tomographic (SPECT) scanning (Leslie, C.A.) **415**, 90

Neurological recovery

Spinal cord injury; Head injury; Kappa agonist; Ischemia (Hall, E.D.) **435**, 174

Neuroma

Afterdischarge; Nerve fiber cross-talk; Nerve injury; Nerve pathophysiology; Pain (Lisney, S.J.W.) **415**, 122

Neuromagnetism

Magnetoencephalography; Biomagnetism; Magnetic evoked field; Cerebellum; Turtle; Purkinje cell (Okada, Y.C.) **412**, 151

Neuromedin K

Serotonin; Substance P; Release; Cerebral cortex; Spantide (Solti, M.) **401**, 377

Neuromedin N

Lys⁸-Asn⁹-Neurotensin(8–13); Basal ganglion; Globus pallidus; Striatum; Monkey; Immunohistochemistry (Reiner, A.) **422**, 186

Neuromodulation

Progesterone; Sex steroid; Cerebellar Purkinje cell; γ -Aminobutyric acid (GABA); Glutamate; Neuronal responsiveness; Anxiolytic action (Smith, S.S.) **400**, 353

Proglumide; Cholecystokinin; Dopamine; Electrophysiology; Iontophoresis (Chiodo, L.A.) **410**, 205

Estrogen; Cerebellar Purkinje cell; Glutamate; Evoked excitation (Smith, S.S.) **422**, 40

Progesterone; Estrogen; Cerebellar Purkinje cell; γ -Aminobutyric acid; Glutamate; Neuronal responsiveness; Anxiolytic (Smith, S.S.) **422**, 52

Neuromuscular

Visuomotor; Skeletal muscle; Lateral rectus muscle; Motoneuron degeneration (LaVail, J.H.) **404**, 127

Neuromuscular junction

Glucocorticoid; Dexamethasone; Acetylcholine; Physostigmine; Myasthenia gravis (Veldsema-Currie, R.D.) **400**, 196

Miniature endplate current; Rising phase; Kinetic parameter; Non-linear

regression; Estimation (Madsen, B.W.) **402**, 387

Botulinum type A toxin; Ouabain; Transmitter release; Presynaptic mechanism; Na^+ - Ca^{2+} exchange (Molgo, J.) **410**, 385

BAY K 8644; Endplate potential; Miniature endplate potential; Calcium channel agonist; Dihydropyridine (Atchison, W.D.) **419**, 315

Calcium; Calmodulin; Chlorpromazine; Transmitter release (Sahaf, Z.Y.) **437**, 397

Neuromuscular spindle

Sympathetic nervous system; Motor activity (Grassi, C.) **435**, 15

Neuromuscular transmission

Motor nerve; Degeneration; Lipid peroxidation; Anti-oxidant (Hall, E.D.) **413**, 175

Neuron

Aplysia; Monoamine; Fluorescent histochemistry; Microspectrofluorimetry (Salimova, N.B.) **400**, 285

2-Deoxyglucose; Autoradiography; Cellular resolution; Glial cell (Duncan, G.E.) **401**, 43

γ -Aminobutyric acid (GABA); Benzodiazepine; Insect; Barbiturate; Locust; Neuronal modulation (Lees, G.) **401**, 267

Axonal transport; Clathrin-associated protein; Coated vesicle (Gower, D.J.) **407**, 1

Angiotensinogen; Angiotensin II; Brain; Astrocyte; Choroid plexus; Immunohistochemistry; Rat (Imboden, H.) **410**, 74

Nervous system injury; PH; pO_2 ; Brain cell culture; Astrocyte; Differentiation; Neurofilament protein; Glial fibrillary acidic protein (Bologa, L.) **411**, 282

Cell membrane expansion; Tissue culture; Dorsal root ganglion; Inhibition of action potential; 2-Decenoic acid; Fatty acid; Adult mouse (Horie, H.) **411**, 298

Glia; Glial-neuronal interaction; Proline; Leucine; Axonal transport (Berkley, K.J.) **414**, 49

α_2 -Adrenergic receptor; Cyclic adenosine monophosphate; Cortex; Striatum; Primary culture; Pertussis toxin (Weiss, S.) **414**, 390

Ro 5-4864; Benzodiazepine; Adenosine; Cerebral cortex (Phillis, J.W.) **416**, 171

Insulin receptor; Norepinephrine uptake; Phosphorylation; α -Subunit; β -Subunit (Masters, B.A.) **417**, 247

Arylsulfatase; Kainic acid; Astrocyte; Rat striatum (Kung, M.-P.) **419**, 141

Microtubule; Neurite; Axon; Compartmentation; Ribosome (Baas, P.W.) **420**, 73

Tissue culture; Dorsal root ganglion; Taxol; Colchicine; Axonal transport; Adult mouse; Microtubule (Horie, H.) **420**, 144

Glia; Bouton; Dendrite; Capillary; Mitochondria; Rat; Plasticity; Memory; Learning (Sirevaag, A.M.) **424**, 320

Creatine kinase (CK); Zona incerta; Lateral hypothalamic area; Immunohistochemistry; Mouse brain (Ikeda, K.) **435**, 348

Astrocyte; Atrial natriuretic peptide (ANP); Benzodiazepine receptor; Calcium channel; Cyclic guanosine monophosphate (Bender, A.S.) **436**, 189

Neuron modulation

Slow synaptic current; Potassium conductance; Bursting cell; *Helix* (Pin, T.) **412**, 165

Neuron morphometry

Delta-9-tetrahydrocannabinol (THC); Rat hippocampus; Dendrite; Synaptic density (Scallet, A.C.) **436**, 193

Neuron pair

Medial septum; Hippocampus; Theta rhythm; Rhythmic unit; Cross-correlation (Alonso, A.) **413**, 135

Neuron type

Dorsal raphe; Non-serotonergic; Intracellular recording; Intracellular horseradish peroxidase; Computer reconstruction (Park, M.R.) **402**, 117

Neuron-specific enolase

Monoclonal antibody; Central nervous system (Frikke, M.J.) **417**, 283

Hypoxia; Anoxia; Cell culture;

Astrocyte; Glutamate;

γ -D-Glutamylglycine (Vibulsreth, S.) **422**, 303

Neuronal activity

Respiratory rhythm; Rostral ventrolateral medulla; Brainstem in vitro; Newborn rat (Onimaru, H.) **403**, 380

Neuronal cell culture

Glutamic acid decarboxylase; Neuronal-glia interaction; Brain development (Aizenman, Y.) **406**, 32

Neurite-promoting factor; Goldfish optic nerve; Conditioned medium (Finklestein, S.P.) **413**, 267

Neuronal cell death

Neuronal number; Cell count; Strain difference (Boss, B.D.) **406**, 280

Neuronal culture

Cyclic guanosine monophosphate (cGMP); Excitatory amino acid; *N*-Methyl-D-aspartate; Kainate; Quisqualate (McCaslin, P.P.) **417**, 380

Neuronal endoplasmic reticulum

Adenosine triphosphate-dependent

calcium uptake; Lysed brain synaptosome; Caffeine; Cyclic adenosine 3',5'-monophosphate (Mekhal-Ishak, K.) **426**, 62

Neuronal firing

Cortically projecting basal forebrain cell; Pallidal cell; Electroencephalogram; Cortical activation; Acetylcholinergic system; Anesthetized rat (Détári, L.) **437**, 1

Neuronal Golgi

Astrocytic Golgi; Anti-organelle antibody (Stieber, A.) **408**, 13

Neuronal hypertrophy

Retrograde cell degeneration; Substantia nigra; Globus pallidus (Pearson, R.C.A.) **400**, 127

γ -Aminobutyric acid; Immunohistochemistry; Substantia nigra; Superior colliculus; Ventromedial nucleus; Axonal sprouting (Pearson, R.C.A.) **412**, 352

Neuronal marker

Central nervous system neuron; Cell culture; Terminal differentiation; Immunocytochemistry; Monoclonal antibody (Wu, D.K.) **421**, 186

Neuronal membrane

Estradiol; Arcuate nucleus; Hypothalamus; Plasma membrane; Synapse; Freeze-fracture; Sex-difference (Olmos, G.) **425**, 57

Neuronal modulation

γ -Aminobutyric acid (GABA); Benzodiazepine; Insect; Barbiturate; Locust; Neuron (Lees, G.) **401**, 267

Neuronal nicotinic receptor

Kappa-bungarotoxin; Autonomic pharmacology; Chick embryo; Ciliary ganglion; Sympathetic ganglion; α -Bungarotoxin (Chiappinelli, V.A.) **402**, 21

Neuronal number

Cell count; Strain difference; Neuronal cell death (Boss, B.D.) **406**, 280

Neuronal plasticity

Cell death; Fluorescent tracer (Chen, K.S.) **410**, 154

Neuronal responsiveness

Progesterone; Sex steroid; Cerebellar Purkinje cell; γ -Aminobutyric acid (GABA); Glutamate; Neuromodulation; Anxiolytic action (Smith, S.S.) **400**, 353

Progesterone; Estrogen; Cerebellar Purkinje cell; γ -Aminobutyric acid; Glutamate; Neuromodulation; Anxiolytic (Smith, S.S.) **422**, 52

Neuronal subset

Olfactory receptor cell; Vomeronasal receptor cell; Lactoseries carbohydrate; Monoclonal antibody (Mori, K.) **408**, 215

Neuronal transmission

Trisynaptic circuit; Hippocampus; θ

Rhythm; Evoked potential (Herreras, O.) **413**, 75

Neuronal-glia interaction

Neuronal cell culture; Glutamic acid decarboxylase; Brain development (Aizenman, Y.) **406**, 32

Neuronotoxic factor

Neuronotrophic factor; Astrocyte; Extracellular K^+ (Lefebvre, P.P.) **413**, 120

Neuronotrophic factor

Neuronotoxic factor; Astrocyte; Extracellular K^+ (Lefebvre, P.P.) **413**, 120

Neuropathological change

Creutzfeldt-Jakob disease; Sleep; REM sleep; Ponto-geniculo-occipital wave; Raphé lesion; Cat (Gourmelon, P.) **411**, 391

Neuropathology

Nerve agent; Soman; O-ethyl-S-(2-diisopropyl-aminoethyl)-methylphosphonothioate (VX); Convulsion; Amygdala; Brain damage; Excitotoxic; Microinjection (McDonough Jr., J.H.) **435**, 123

Neuropathy

Peripheral nerve; Blood-nerve barrier; Calcium; Regulation; Homeostasis; Blood vessel; Hypercalcemia; Hypocalcemia; Endoneurium; Magnesium; Ion (Rechthand, E.) **406**, 185

Aldose reductase; Axonal transport; Diabetes mellitus; Streptozotocin; Substance P (Robinson, J.P.) **426**, 339

Neuropeptide

Neurotensin; β -Endorphin; Ethanol; Anesthesia; Hypothermia; Selectively bred mouse (Erwin, V.G.) **400**, 80

Sympathetic preganglionic axon; Neuropeptide depletion; Neurotensin; Leucine-enkephalin; Sympathetic cardioacceleration; Non-cholinergic ganglionic transmission (Bachoo, M.) **400**, 377

Vasopressin; 1-Desamino-8-D-arginine vasopressin; Fever; Interleukin-1; Vasopressor antagonist; V_1/V_2 receptor (Naylor, A.M.) **401**, 173

Glutamate; Immunocytochemistry; Lateral olfactory tract; Mitral cell; *N*-Acetyl-aspartyl-glutamate; Olfactory bulb (Blakely, R.D.) **402**, 373

Enkephalin; Cholecystokinin; Opioid; Nociception; Periaqueductal gray matter; Neurotransmitter coexistence (Gall, C.) **403**, 403

Small cardioactive peptide SCP_B; FMRFamide; Stomatogastric nervous system; Crustacean; Antibody (Callaway, J.C.) **405**, 295

Cholecystokinin (CCK); Hippocampus; Cholecystokinin (CCK) antagonist

(MacVicar, B.A.) **406**, 130

Adipokinetic hormone (AKH); Red pigment concentrating hormone (RPCH); Immunocytochemistry; Invertebrate endocrinology; *Lymnaea*; *Porcellio*; *Lithobius*; *Astacus* (Schooneveld, H.) **406**, 224

N-Acetylaspartylglutamate; Immunohistochemistry; Retina; Spinal sensory neuron; Amphibian (Kowalski, M.M.) **406**, 397

Immunohistochemistry; Lamprey; Spinal cord; Phylogenetic conservation (Buchanan, J.T.) **408**, 299

Enkephalin; α -Motoneuron; Synapse; Spinal cord; Electron microscopy (Atsumi, S.) **409**, 187

Cerebrospinal fluid; Cholecystokinin; Multiple sclerosis; Radioimmunoassay (Bryld, E.) **409**, 364

Spontaneously hypertensive rat (SHR); Neurochemistry; Sympathetic ganglion; Dopamine; Cyclic nucleotide (Ariano, M.A.) **415**, 115

Somatostatin; Kindling; Central nervous system; Brain (Pitkänen, A.) **416**, 180

Arginine vasopressin; Hippocampus; Hippocampal slice; Arginine vasopressin receptor; Arginine vasopressin antagonist (Burnard, D.M.) **422**, 11

Rat; Immunohistochemistry; Fiber tracing; Colocalization; Fluoro-Gold dye; Bulbospinal system (Millhorn, D.E.) **424**, 99

Monkey; Thalamus; Afferent innervation (Molinari, M.) **426**, 270

Substance P; Substance K; Tachykinin; Hippocampus; Limbic system (Shults, C.W.) **426**, 290

Auditory pathway; Brainstem; Guinea pig; Immunocytochemistry; Sexual dimorphism; Vasopressin (Dubois-Dauphin, M.) **437**, 151

Neuropeptide (depletion from sensory nerves)

Capsaicin; Sensory nerve terminal; Rat urinary bladder; Substance P; Capsaicin desensitization (Maggi, C.A.) **436**, 402

Neuropeptide binding site

Angiotensin II; Circumventricular organ; AV3V area; Quantitative autoradiography; Paraventricular nucleus (Plunkett, L.M.) **405**, 205

Neuropeptide depletion

Sympathetic preganglionic axon; Neuropeptide; Neurotensin; Leucine-enkephalin; Sympathetic cardioacceleration; Non-cholinergic ganglionic transmission (Bachoo, M.) **400**, 377

Neuropeptide receptor

Sympathetic ganglion; Renin

angiotensin system; Peripheral sympathetic system; Receptor autoradiography (Castrén, E.) **422**, 347

Neuropeptide Y

Somatostatin; Cysteamine (Chattha, G.K.) **401**, 359

Somatostatin; Monkey; Basal ganglion; Cortex (Beal, M.F.) **405**, 213

Rat dentate gyrus (Brooks, P.A.) **408**, 295

Circadian rhythm; Immunocytochemistry; Intergeniculate leaflet; Suprachiasmatic nucleus; Ventral lateral geniculate nucleus (Harrington, M.E.) **410**, 275

Somatostatin; Amphetamine; Dopamine; Caudate nucleus; Push-pull perfusion (Tatsuoka, Y.) **411**, 200

Quinolinic acid; Excitotoxin; Basal ganglion; Striatum; Rat; Immunohistochemistry (Boegman, R.J.) **415**, 178

Distribution; Cat; Spinal cord; Autonomic nucleus; Colchicine (Krukoff, T.L.) **415**, 300

Hypothalamus; Paraventricular nucleus; Adrenocorticotrophic hormone (ACTH); Corticosterone; Desamido-NPY (Wahlestedt, C.) **417**, 33

Neuropeptide Y receptor; Autoradiography; Mammal; Species difference; Forebrain (Martel, J.-C.) **419**, 403

Blood pressure; Rostral ventrolateral medulla; Bulbospinal pathway; C₁ adrenaline-containing neuron; Rabbit (Pilowsky, P.M.) **420**, 380

Colocalization; 5-Hydroxytryptamine; Intracardiac neuron; Dopamine β -hydroxylase; Heart; Tissue culture (Hassall, C.J.S.) **422**, 74

Medial preoptic area; Mediobasal hypothalamus; Testosterone; β -Endorphin; Neurotensin; Sexual differentiation; Opioid receptor; Rat (Diez-Guerra, F.J.) **424**, 225

Co-occurrence; Cortex; Dorsal ventricular ridge; Basal ganglion; Somatostatin; Evolution; Turtle (Reiner, A.) **426**, 149

Neuropeptide Y (NPY)

Receptor; Autoradiography; Area postrema; SHR; Blood pressure (Nakajima, T.) **417**, 360

Memory; Mouse; Recall; Retention (Flood, J.F.) **421**, 280

Neuropeptide Y receptor

Neuropeptide Y; Autoradiography; Mammal; Species difference; Forebrain (Martel, J.-C.) **419**, 403

Neurophysin

Nicotinic site; Corticotropin releasing factor (CRF); Hypothalamus

(Sharp, B.M.) **422**, 361

Neurophysiology

Aging; Caudate nucleus; Basal ganglion; Substantia nigra; Cat (Levine, M.S.) **401**, 213

Caudate nucleus; Aged cat; Chronic recording; Reduced excitability (Levine, M.S.) **405**, 389

Neurosecretion

Crustacean; Sinus gland; Electrical potential; Moulting cycle (Chiang, R.G.) **402**, 49

Corticotropin releasing factor; Glucocorticoid; Paraventricular nucleus; Steroid feedback; Vasopressin (Sawchenko, P.E.) **403**, 213

Supraoptic nucleus; γ -Aminobutyric acid (GABA); Hypothalamus; Brain slice; Baclofen (Ogata, N.) **403**, 225

Corpus cardiacum; Adipokinetic hormone; Octopamine; Cyclic adenosine monophosphate; Calcium; Locust (Pannabecker, T.) **423**, 13

Pituitary gland; Neurohypophysis; Digital imaging technique; Exocytosis; Secretory granule; Stimulation-secretion coupling; *Xenopus* (Terakawa, S.) **435**, 380

Neurosecretory neuron

Hypophysectomy; Regeneration; Median eminence; Immunohistochemistry; Vasopressin; Oxytocin; Postnatal development (Kawamoto, K.) **422**, 106

Neurotensin

Sympathetic preganglionic axon; Neuropeptide; Neuropeptide depletion; Leucine-enkephalin; Sympathetic cardioacceleration; Non-cholinergic ganglionic transmission (Bachoo, M.) **400**, 377

Neuropeptide; β -Endorphin; Ethanol; Anesthesia; Hypothermia; Selectively bred mouse (Erwin, V.G.) **400**, 80

Immunocytochemistry; Human infant; Thalamus; Subthalamus; Hypothalamus (Sakamoto, N.) **403**, 31

Reward; Self-injection; Ventral tegmental area (Glimcher, P.W.) **403**, 147

Area postrema; Enkephalin; γ -Aminobutyric acid (GABA); Guanethidine; Immunohistochemistry; Neurotoxin; Rat; Serotonin (Newton, B.W.) **404**, 151

Stereotyped behavior; Apomorphine; Cholecystokinin; Dopamine; Nucleus accumbens (Blumstein, L.K.) **404**, 293

Ontogeny; Binding; Rat brain (Schotte, A.) **408**, 326

Central amygdala; Stress ulcer; Dopamine (Ray, A.) **409**, 398

Wistar-Kyoto (WKY) rat;

- Spontaneously hypertensive (SH) rat; Brain; Radioimmunoassay (Shulkes, A.) **415**, 404
- Immunohistochemistry; Median eminence; Arcuate nucleus; Hypothalamic lesion (Kiss, A.) **416**, 129
- Stress; Ventral tegmental area; Dopamine; Somatostatin; Corticotropin-releasing factor (Deutch, A.Y.) **417**, 350
- Analgesia; Nucleus raphe magnus; Pain; Microinjection; Brainstem (Fang, F.G.) **420**, 171
- Hypothalamus; Hypophysis; Electrical stimulation (Eckland, D.J.A.) **421**, 161
- Methamphetamine; Dopamine; SCH 23390; Sulpiride (Letter, A.A.) **422**, 200
- Medial preoptic area; Medial basal hypothalamus; Testosterone; β -Endorphin; Neuropeptide Y; Sexual differentiation; Opioid receptor; Rat (Diez-Guerra, F.J.) **424**, 225
- Alcohol-narcosis; Thyrotropin-releasing hormone; ICI 174864 enkephalin (Widdowson, P.S.) **424**, 281
- Modulation; Dopamine release; Desipramine; Nucleus accumbens (Reyneke, L.) **425**, 114
- Circadian; Substance P; Radioimmunoassay (Albers, H.E.) **437**, 189
- Neurotensin receptor**
1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP); Nigrostriatal pathway; Receptor autoradiography; Substantia nigra; Striatum; Monkey (Waters, C.M.) **412**, 244
- Neurotoxicity**
5,6-Dihydroxytryptamine; Methamphetamine; Serotonin; Hippocampus; Psychomotor stimulant (Commins, D.L.) **403**, 7
- Aging; Parkinson's disease; Dopamine; Substantia nigra; Cell degeneration (Ricaurte, G.A.) **403**, 43
- Cytotoxicity; Dextrophan; Opiate; Dextromethorphan; Glutamate; Cortex; Cell culture (Choi, D.W.) **403**, 333
- 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP); Catecholamine; Substantia nigra; Mice (Sundström, E.) **405**, 26
- Adriamycin; Blood-brain barrier; Disruption; Mannitol; Chemotherapy; Rat (Kondo, A.) **412**, 73
- Excitotoxin; Nucleus basalis; Choline acetyltransferase; Quinolinic acid (Boegman, R.J.) **417**, 315
- 5,6-Dihydroxytryptamine; Para-chloroamphetamine; Serotonin; Hippocampus; Somatosensory cortex; Striatum (Commins, D.L.) **419**, 253
- Brain cortex; Kainic acid; Pyknosis; Swelling; Calcium; Chloride; Cytoskeleton (Berdichevsky, E.) **423**, 213
- Neurotransmitter release; Synaptic activity; Aluminum (Banin, E.) **423**, 359
- Dynorphin; Spinal cord; Tail-flick; Reflex; Morphine (Caudle, R.M.) **435**, 1
- Cytotoxicity; Homocysteic acid; Homocysteate; Cortical neuron; Cell culture; N-Methyl-D-aspartate (NMDA); Excitatory amino acid; Glutamate (Kim, J.P.) **437**, 103
- Neurotoxin**
Area postrema; Enkephalin; γ -Aminobutyric acid (GABA); Guanethidine; Immunohistochemistry; Neurotensin; Rat; Serotonin (Newton, B.W.) **404**, 151
- Kainic acid; Terminal degeneration; Tree shrew; Lateral geniculate nucleus; Wheat germ agglutinin-horseradish peroxidase (Horn, K.M.) **416**, 187
- Pyrethroid; Sodium channel gating; Neuroblastoma; Temperature (Ruigt, G.S.F.) **437**, 309
- β , β' -Iminodipropionitrile (IDPN); Neurofilament; Excitation, circling and choreiform head and neck movements (ECC) syndrome; Axonal enlargement; Amine metabolism (Morandi, A.) **437**, 69
- Neurotransmission**
Guanine nucleotide-binding protein; Synapse; Immunohistochemistry; Retina; Rat (Terashima, T.) **410**, 97
- Neurotransmitter**
Kidney; Renal nerve; Adrenergic receptor; Hypertension (Sripanidkulchai, B.) **400**, 91
- Glutamate; Aspartate; Pulvinar; Visual cortex; Rat (Fosse, V.M.) **400**, 219
- γ -Aminobutyric acid (GABA); Blood pressure; Nucleus tractus solitarius; Vasopressin; Hypertension; Muscimol (Catelli, J.M.) **403**, 279
- Astrocyte; γ -Aminobutyric acid (GABA); GABA_A-receptor; Chloride-channel; Rat (Kettenmann, H.) **404**, 1
- Catecholamine; Aging; Salmon (Ebbesson, S.O.E.) **405**, 175
- Electrosensory system; Regional neurochemistry (Bissoli, R.) **405**, 380
- Cat; Spinal cord; Lesion; Monoamine (Casey, K.L.) **408**, 377
- Immunohistochemistry; L-DOPA decarboxylase; L-Histidine decarboxylase; Amacrine cell; Horizontal cell; Histaminergic neuron; Guinea pig (Ando-Yamamoto, M.) **410**, 269
- Retina; Immunocytochemistry; Autoradiography; γ -Aminobutyric acid (GABA) (Yazulla, S.) **411**, 400
- Calcitonin gene-related peptide; Lateral line organ; Hair cell; Efferent nerve (Adams, J.C.) **419**, 347
- Olfaction; Lobster; Electrophysiology; Purinergic; Adenosine; Adenosine monophosphate (Derby, C.D.) **421**, 57
- Colocalization; Melanin-concentrating hormone; α -Melanocyte-stimulating hormone (Pelletier, G.) **423**, 247
- Acetylcholine; Peripheral nerve; Conduction; Potassium channel; Cyclic nucleotide; Cyclic guanosine monophosphate (Kendig, J.J.) **435**, 24
- Neurotransmitter amino acid**
Domestic chicken; Avian; Forebrain; Inhibitory synapse (Csillag, A.) **437**, 283
- Neurotransmitter candidate release**
Hair cell; Trout saccule; Amino acid; HPLC (Drescher, M.J.) **417**, 39
- Neurotransmitter coexistence**
Enkephalin; Cholecystokinin; Neuropeptide; Opioid; Nociception; Periaqueductal gray matter (Gall, C.) **403**, 403
- Neurotransmitter interaction**
Norepinephrine; Acetylcholine; Memory; Rat (Decker, M.W.) **417**, 59
- Neurotransmitter release**
Antinociception; Nucleus raphe magnus; Norepinephrine; Serotonin; Spinal cord; Superfusion (Sagen, J.) **406**, 246
- Phencyclidine; Phencyclidine receptor; Sigma receptor; N-Methyl-D-aspartate (Zukin, S.R.) **416**, 84
- Synaptic activity; Aluminum; Neurotoxicity (Banin, E.) **423**, 359
- Neurotransmitters' interaction**
Inositol phospholipid; γ -Aminobutyric acid; Norepinephrine; Hippocampal slice; γ -Aminobutyric acid agonist (Corradetti, R.) **411**, 196
- Neurotrophic**
Parasympathetic; Ciliary; ChAT; Lung (Wallace, T.L.) **411**, 351
- Neurotrophic factor**
Androgen; Developing spinal cord; Organotypic culture; Testosterone metabolism; Aromatase; 5α -Reductase (Hauser, K.F.) **406**, 62
- Cholinergic development; Nerve growth factor; Septal explant culture (Bostwick, J.R.) **422**, 92
- Neurotrophic melanocortin**
Peripheral nerve regeneration; 150 kDa

neurofilament protein;
Immunocytochemistry; α -MSH/NF150
cross-reacting antibody (Verhaagen, J.)
404, 142

Neurotrophism

Insulin receptor; Skeletal muscle;
Denervation (Hofmann, W.W.)
401, 312

θ -Neuron

Hippocampus; Complex-spike cell;
Pyramidal cell; Interneuron;
Noradrenaline; α -Receptor; β -Receptor
(Pang, K.) **425**, 146

Neutral endopeptidase

Opioid receptor; Caudate putamen;
Globus pallidus; Substantia nigra;
Kainic acid; Colchicine;
6-Hydroxydopamine (Waksman, G.)
436, 205

Newborn pig

Inspiratory neuron; Phrenic nerve;
Pulmonary afferent (Sica, A.L.)
408, 222

Newborn rabbit

Odor processing; Spatial coding;
2-Deoxyglucose; Olfactory bulb;
Olfactory epithelium; Suckling
pheromone; Odor learning
(Hudson, R.) **421**, 85

Newborn rat

Respiratory rhythm; Neuronal activity;
Rostral ventrolateral medulla;
Brainstem in vitro (Onimaru, H.)
403, 380

NG 108-15

Calcium channel; Enkephalin receptor;
Naloxone; Intracellular Ca^{2+} ; Ba
current (Shimahara, T.) **415**, 357

7S NGF

Nerve growth factor (NGF);
Conditioned medium; L-cell; Binding
protein (Siminoski, K.) **435**, 273

Ni protein

[^3H]Sulpiride; D_2 Dopamine receptor;
Sodium ion; Magnesium ion;
Temperature; Guanine nucleotide;
Ternary complex model (Imafuku, J.)
402, 331

Nialamide

Thyrotropin-releasing hormone (TRH);
Wet-dog shakes; Antidepressant;
Desipramine (Sills, M.A.) **401**, 195

Nicardipine

Bay K8644; Dihydropyridine;
Hippocampus; Spontaneously
hypertensive rat; Acetylcholine
(Brisac, A.-M.) **435**, 160

Nicotine

2-Deoxyglucose; Local cerebral glucose
utilization; Nicotine receptor; Rat brain
(Grünwald, F.) **400**, 232

Enkephalin; Chronic; Catecholamine;
Guinea pig; Adrenal gland
(Hexum, T.D.) **406**, 370

Dopamine metabolism; Substantia

nigra lesion; Reverse tolerance;
Caudate nucleus; Nucleus accumbens;
Hypothermia; Stereotypy (Lapin, E.P.)
407, 351

Chronic treatment; Muscarinic
receptor; High-affinity site; Cerebral
cortex; Carbamylcholine
(Yamanaka, K.) **409**, 395

Acetylcholine; Cat visual cortex;
Lateral geniculate nucleus; Receptor;
Binding site (Prusky, G.T.) **412**, 131

Circling behavior; Honey bee;
 γ -Aminobutyric acid; Acetylcholine;
Muscimol; Picrotoxin; Flaxedil; Lesion
(Michelsen, D.B.) **421**, 14

[^3H]Nicotine

Spontaneous hypertension; Medulla
oblongata; Nicotinic cholinoreceptor
(Yamada, S.) **410**, 212

Nicotine receptor

Nicotine; 2-Deoxyglucose; Local
cerebral glucose utilization; Rat brain
(Grünwald, F.) **400**, 232

Nicotinic cholinoreceptor

Spontaneous hypertension; Medulla
oblongata; [^3H]Nicotine (Yamada, S.)
410, 212

Nicotinic receptor

Choline; Brain; α -Bungarotoxin; Rat
(Morley, B.J.) **421**, 21

Alzheimer's disease; Muscarinic
receptor; [^3H]Acetylcholine binding;
Agonist binding (Kellar, K.J.) **436**, 62

Nicotinic site

Corticotropin releasing factor (CRF);
Neurophysin; Hypothalamus
(Sharp, B.M.) **422**, 361

Nifedipine

Analgesia; Activity; Stress;
Stress-induced analgesia; Calcium
channel antagonist; Diltiazem;
Verapamil; BAY K 8644; Opioid
analgesia (Kavaliers, M.) **408**, 403

Nigral transplant

Weaver mutant mouse; Dopamine;
Striatum; Rotational behavior;
Functional recovery; Parkinson disease
(Low, W.C.) **435**, 315

Nigrostriatal

Double staining; Mirror technique;
Synaptic interaction; Tyrosine
hydroxylase; Substance P (Kawai, Y.)
401, 371

1-Methyl-4-phenyl-1,2,3,6-
tetrahydropyridine (MPTP);
Parkinson's disease; African Green
monkey; Ventral tegmental area;
Mesolimbic; Cerebrospinal fluid;
Dopamine; Homovanillic acid;
3-Methoxy-4-hydroxyphenylglycol
(MHPG) (Elsworth, J.D.) **415**, 293

1-Methyl-4-phenyl-1,2,3,6-
tetrahydropyridine (MPTP); Terminal
degeneration; Dopamine; Mosaic;
Fink-Heimer; Dog; Striatum

(Wilson, J.S.) **423**, 329

Nigrostriatal degeneration

1-Methyl-4-phenyl-1,2,3,6-
tetrahydropyridine (MPTP);
Dopamine; Motor function; Amine
accumulation (Willis, G.L.) **402**, 269

Nigrostriatal lesion

Substantia nigra pars reticulata;
6-Hydroxydopamine; Dopamine;
 D_1 -receptor; D_2 -receptor; Single unit
recording (Weick, B.G.) **405**, 234

Nigrostriatal neuron

In vivo electrochemistry; Dopamine (E
Ganouni, S.) **404**, 239

Nigrostriatal pathway

1-Methyl-4-phenyl-1,2,3,6-
tetrahydropyridine (MPTP);
Neurotensin receptor; Receptor
autoradiography; Substantia nigra;
Striatum; Monkey (Waters, C.M.)
412, 244

Axonal microenvironment; Axonal
growth; Regeneration; Rat
(Knoops, B.) **425**, 191

Nitrobenzylthioinosine

Adenosine uptake; Ontogeny;
Adenosine deaminase; Brain
(Geiger, J.D.) **436**, 265

Nitrous oxide

β -Endorphin; α -Melanocyte stimulating
hormone; Adrenocorticotrophic
hormone; Medial basal hypothalamus;
Periaqueductal gray (Zuniga, J.R.)
420, 57

β -Endorphin; α -Melanocyte stimulating
hormone; Medial basal hypothalamus;
Cytodex beads; In vitro superfusion
(Zuniga, J.R.) **420**, 66

Nociception

Dorsal horn neuron; C-fiber activation;
Serotonergic descending inhibitory
system; Cinanserin; Methysergide
(Rivot, J.P.) **403**, 142

Enkephalin; Cholecystokinin;
Neuropeptide; Opioid; Periaqueductal
gray matter; Neurotransmitter
coexistence (Gall, C.) **403**, 403

Pentobarbital; Spinal cord; Naloxone;
Bicuculline; Picrotoxin; Intrathecal;
GABAergic transmission (Stein, C.)
407, 307

Striatum; Putamen; Caudate nucleus;
Spinal trigeminal nucleus; Wheat germ
agglutinin-horseradish peroxidase
(WGA-HRP); Horseradish peroxidase
(HRP); Cat (Yasui, Y.) **408**, 334

Spinal dorsal horn neuron; Descending
inhibition; Diffuse noxious inhibitory
control; Cat (Morton, C.R.) **410**, 347

Opioid receptor; Spinal cord; μ -Opioid
 δ -Opioid; Analgesia; Intrathecal
opioid; Rat dorsal horn; Enkephalin
(Dickenson, A.H.) **413**, 36

Hyperalgesia; Capsaicin; Chronic pain

- (Simone, D.A.) **418**, 201
- Tooth pulp; Trigeminal subnucleus interpolaris; Cat; Conditioning stimulation; Naloxone (Pertovaara, A.) **422**, 205
- Hyperalgesia; Bradykinin; Leukotriene B₄; Norepinephrine; Prostaglandin E₂ (Taiwo, Y.O.) **423**, 333
- Spinothalamic tract; Trigeminothalamic tract; Opioid peptide; Dorsal horn (Coffield, J.A.) **425**, 380
- Circadian rhythm; Constant light; Golden hamster (Pickard, G.E.) **425**, 395
- Serotonin; Analgesia; Raphe nucleus; *p*-Chlorophenylalanine; Dorsal spinal cord; Motoneuron; Electrochemical detection (Steinman, J.L.) **426**, 297
- Periaqueductal gray; Opioid; Opioid receptor; Pain; Tolerance; Conditioning (Millan, M.J.) **435**, 97
- Cardiac pain; Thalamus; Nucleus ventralis posterolateralis; Viscerosomatic convergence; Cat (Taguchi, H.) **436**, 240
- Lateral cervical nucleus; Sensitization; Thermal stimulation; Spinocervicothalamic pathway (Kajander, K.C.) **436**, 390
- Spinomesencephalic; Spinothalamic; Collateral projection (Yezierski, R.P.) **437**, 165
- Nociceptive neuron**
Spinal cord; Dorsal horn; Inhibition; Muscle afferent; GABA; Bicuculline (Morris, R.) **401**, 365
- Nociceptor**
Itch; Pruritus; Cutaneous receptor; Cowhage; Mechanoreceptor (Tuckett, R.P.) **413**, 87
- Itch; Pruritus; Cutaneous receptor; Cowhage; Electrocutaneous stimulation; Signal averaging (Tuckett, R.P.) **413**, 95
- C-fiber; Pain; Ephapse; Gap junction; Electrotonic; Reflex sympathetic dystrophy; Sympathetic nervous system (Meyer, R.A.) **437**, 181
- Nociceptor-driven**
Thermal inhibition; Pain; Cat (Kanui, T.I.) **402**, 160
- Node of Ranvier**
Axonal transport; Glycoprotein; Sciatic nerve; Optic nerve (Armstrong, R.) **412**, 196
- Acrylamide neuropathy; Rat sciatic nerve; Voltage clamp; Electron microscopy (Brismar, T.) **423**, 135
- Nodose ganglion**
Autoradiography; Vagal afferent fiber; Gastroduodenum; Axonal transport; Rabbit (Sato, M.) **400**, 101
- Convulsant; 4-Aminopyridine; Pentylenetetrazole; Transient outward current (Oyama, Y.) **409**, 243
- Membrane current; Internal perfusion; Transient outward current (Oyama, Y.) **410**, 61
- Autoradiography; Axonal transport; Vagal afferent fiber; Epiglottis; Rabbit (Sato, M.) **410**, 101
- Thymus; Afferent nerve fiber; Horseradish peroxidase (Magni, F.) **424**, 379
- Nodulus**
Corticovestibular projection; Uvula; Zone; Cat (Shojaku, H.) **416**, 100
- Pseudocholinesterase; Cerebellum; Uvula; Sagittal zone; Purkinje cell; Bergmann glia (Gorenstein, C.) **418**, 68
- Noise stimulus**
Met-enkephalin; Lateral olivocochlear system; Radioimmunoassay; Cochlea; Guinea pig (Eybalin, M.) **418**, 189
- Nomifensine**
Cerebellum; Noradrenaline; In vivo electrochemistry; Potassium-evoked release; Rat (Gerhardt, G.A.) **413**, 327
- Non-cholinergic ganglionic transmission**
Sympathetic preganglionic axon; Neuropeptide; Neuropeptide depletion; Neurotensin; Leucine-enkephalin; Sympathetic cardioacceleration (Bachoo, M.) **400**, 377
- Non-inactivating current**
Potassium channel; Patch clamping; Inactivation; Voltage-dependent channel; *Helix* neuron (Ram, J.L.) **405**, 16
- Non-linear analysis**
Renshaw cell; Stochastic stimulation; Synaptic facilitation; Synaptic depression (Windhorst, U.) **408**, 289
- Non-linear regression**
Neuromuscular junction; Miniature endplate current; Rising phase; Kinetic parameter; Estimation (Madsen, B.W.) **402**, 387
- Non-opioid analgesia**
Opioid analgesia; Stress; Naloxone; ICI 154,129; β -Funaltrexamine (B-FNA); Snail; Evolution (Kavaliers, M.) **410**, 111
- Non-phosphorylated neurofilament**
Phosphorylated neurofilament; Purkinje cell basket; Hypothyroidism (Bignami, A.) **409**, 143
- Non-pyramidal cell**
Fast spiking cell; GABAergic neuron; Hippocampus; Dentate gyrus; Slice preparation; Intracellular injection of HRP (Kawaguchi, Y.) **411**, 190
- Fast spiking cell; Calcium-binding protein; Parvalbumin; γ -Aminobutyric acid (GABA)ergic neuron; Hippocampus; Intracellular injection of Lucifer yellow; Immunohistochemistry (Kawaguchi, Y.) **416**, 369
- Hippocampus; Dentate gyrus; Subiculum; Fast-spiking cell (Kawaguchi, Y.) **425**, 351
- Non-rapid-eye-movement sleep**
Electroencephalographic sleep; Rapid-eye-movement (REM) sleep; Serotonin; Fluoxetine; Trifluoromethylphenylpiperazine (TFMPP); Rat (Pastel, R.H.) **436**, 92
- Non-serotonergic**
Dorsal raphe; Intracellular recording; Intracellular horseradish peroxidase; Neuron type; Computer reconstruction (Park, M.R.) **402**, 117
- Non-shivering thermogenesis**
Pre-pontine knife cut; Hyperthermia; Brown adipose tissue; Cardiac output distribution; Thermoregulation (Shibata, M.) **436**, 273
- Non-specific nucleus**
Cerebral cortex; Cholinesterase; Cingulate gyrus; Limbic system; Thalamocortical projection (Robertson, R.T.) **404**, 282
- Non-uniformity**
Miniature endplate potential (MEPP) frequency; MEPP amplitude; Spatial decay method; Frog neuromuscular junction; Transmitter release (Robitaille, R.) **408**, 353
- Nootropics**
Oxiracetam; Piracetam; Aniracetam; Pramiracetam; Passive avoidance; Adrenalectomy; Peripheral mechanism (Mondadori, C.) **435**, 310
- Noradrenaline** (see also **Norepinephrine**)
Alzheimer's disease; Neocortex; Serotonin; 5-Hydroxyindoleacetic acid; 3-Methoxy-4-hydroxyphenylglycol; Dopamine; Dihydroxyphenylacetic acid; Homovanillic acid; Choline acetyltransferase (Palmer, A.M.) **401**, 231
- Dopamine; Catecholamine; Amine accumulation; 6-Hydroxydopamine; Neurochemical specificity (Willis, G.L.) **403**, 15
- Kindling; Experimental epilepsy; Amygdala; Dopamine; Serotonin (Lewis, J.) **403**, 205
- Lateral hypothalamus; Single neuron activity; Monkey; Electrophoresis; Dopamine; Operant feeding; Cue response; Reward (Nishino, H.) **405**, 56
- α -Receptor; Supraoptic neuron; Intracellular recording; Brain slice (Yamashita, H.) **405**, 348
- Dopamine; Ventral tegmental area; Septum; Frontal cortex; Attention; Conditioned blocking; Active avoidance (Oades, R.D.) **406**, 136

Oxytocin; Arginine-vasopressin;
Ventral noradrenergic bundle; Stress;
Sexual dimorphism (Carter, D.A.)
406, 313

Choline acetyltransferase; Nucleus
basalis; Somatostatin;
5-Hydroxytryptamine; Neocortex;
Excitotoxin; Alzheimer's disease
(Fine, A.) **406**, 326

Aldehyde dehydrogenase; Anesthesia;
Barbiturate; Disulfiram; Hexobarbital;
Serotonin; Sleeping-time
(Nilsson, G.E.) **409**, 265

Area postrema; Parabrachial area;
Serotonin; Tyrosine hydroxylase
(Miceli, M.O.) **412**, 381

Cerebellum; In vivo electrochemistry;
Potassium-evoked release;
Nomifensine; Rat (Gerhardt, G.A.)
413, 327

Alzheimer's disease; Neocortex;
Catecholamine; Dopamine;
Acetylcholine; Human brain
(Palmer, A.M.) **414**, 365

p-Chlorophenylalanine (PCPA);
Serotonin (5-HT);
5-Hydroxyindoleacetic acid (5-HIAA);
Catecholamine turnover; Dopamine;
Estrogen; Luteinizing hormone (LH)
surge (Burri, R.) **416**, 267

Fasciculus retroflexus; Heterotypic
collateral sprouting; Homotypic
collateral sprouting; Interpeduncular
nucleus; Locus coeruleus
(Battisti, W.P.) **418**, 287

6-Hydroxydopamine; Medullary A₁
lesion; Dorsal bundle lesion; Locus
coeruleus lesion; Morphine analgesia;
Tail flick test; Hot plate test; Pressure
test (Sawynok, J.) **419**, 156

Sympathetic preganglionic neuron;
Calcium current; Pacemaker activity;
Burst firing (Yoshimura, M.) **420**, 147

Dorsal noradrenergic bundle;
6-Hydroxydopamine; α_2 -Adrenoceptor;
 β_1 -Adrenoceptor; Neocortex; Rat
(Dooley, D.J.) **420**, 152

L-threo-3,4-Dihydroxyphenylserine
(*L*-threo-DOPS); Spinal trigeminal
nucleus; Single neuron (Sasa, M.)
420, 157

Ethylcholine aziridinium ion (AF64A);
Acetylcholine; Dopamine;
Hippocampus; Alzheimer's disease
(Hörtnagl, H.) **421**, 75

Octopamine; Locus coeruleus; False
transmitter; High-performance liquid
chromatography (HPLC);
Radioenzymatic assay (Hicks, T.P.)
421, 315

Neurohypophyseal peptide;
Peptide/amine interaction; Nucleus
tractus solitarius; Blood pressure;
Brattleboro rat (Vallejo, M.) **422**, 295

Hippocampus; Complex-spike cell;
 θ -Neuron; Pyramidal cell; Interneuron;
 α -Receptor; β -Receptor (Pang, K.)
425, 146

Affective defense behavior; Anterior
hypothalamus; Ventromedial
hypothalamus; Intracerebral injection;
Yohimbine (Barrett, J.A.) **426**, 381

Brain lesion; Glutamate; Ibotenate;
Inositol phospholipid hydrolysis
(Nicoletti, F.) **436**, 103

Estrogen receptor; Catecholamine;
Noradrenergic system; Yohimbine;
Hypothalamus; Pituitary gland;
 α_2 -Noradrenergic receptor
(Blaustein, J.D.) **436**, 253

Adult chronic spinal cat; Clonidine;
Yohimbine; Locomotion; Cutaneous
reflex (Barbeau, H.) **437**, 83

Noradrenaline release

Olfactory bulb; γ -Aminobutyric acid
(GABA); Presynaptic control; Rat
(Gervais, R.) **400**, 151

Adrenaline release; Intracerebral
dialysis;
Phenylethanolamine-
N-methyltransferase (PNMT) inhibitor;
Idazoxan; Monoamine oxidase (MAO)
inhibitor; *N*-(2-Chloroethyl)-*N*-ethyl-2-
bromobenzylamine (DSP₄)
(Routledge, C.) **426**, 103

Noradrenaline utilization

Passive avoidance behavior;
Anti-vasopressin serum; Hippocampus,
dorsal; Hippocampus, ventral; Septum,
dorsolateral; Caudate nucleus
(Veldhuis, H.D.) **425**, 167

Noradrenergic axon

Locus coeruleus; *Phaseolus vulgaris*
leucoagglutinin (PHA-L); Spinal cord;
Substantia gelatinosa (Fritschy, J.-M.)
437, 176

Noradrenergic innervation

Hippocampus; Cerebral cortex;
6-Hydroxydopamine; Antidepressant
drug; Learned helplessness; Escape
failure; Rat (Soubrie, P.) **437**, 323

Noradrenergic neuron

Sympathoexcitatory neuron;
Sympathoinhibitory neuron; Area
postrema; Fluoro-Gold; Tyrosine
hydroxylase immunohistochemistry
(Blessing, W.W.) **419**, 336

Ambient heating; Fever; Locus
coeruleus; Stress (Morilak, D.A.)
422, 17

Cardiovascular system; Locus
coeruleus; Stress (Morilak, D.A.)
422, 24

Blood glucose; Hypoglycemia; Insulin;
Locus coeruleus; Stress
(Morilak, D.A.) **422**, 32

Chronic cathodal lesion;
6-Hydroxydopamine; Central
transmitter release; Blood pressure

response; Heart rate response; Rabbit
(Korner, P.I.) **435**, 258

Noradrenergic system

Estrogen receptor; Norepinephrine;
Prazosin; Hypothalamus; Progesterin
receptor; Catecholamine
(Blaustein, J.D.) **404**, 39

Estrogen receptor; Norepinephrine;
Yohimbine; Phenylephrine; Clonidine;
Catecholamine; Hypothalamus;
 α_2 -Noradrenergic receptor
(Blaustein, J.D.) **404**, 51

Estrogen receptor; Catecholamine;
Noradrenaline; Yohimbine;
Hypothalamus; Pituitary gland;
 α_2 -Noradrenergic receptor
(Blaustein, J.D.) **436**, 253

α_2 -Noradrenergic receptor

Estrogen receptor; Norepinephrine;
Noradrenergic system; Yohimbine;
Phenylephrine; Clonidine;
Catecholamine; Hypothalamus
(Blaustein, J.D.) **404**, 51

Estrogen receptor; Catecholamine;
Noradrenaline; Noradrenergic system;
Yohimbine; Hypothalamus; Pituitary
gland (Blaustein, J.D.) **436**, 253

[³H]Noradrenaline release

[³H]Dopamine release; Amygdala slice
in vitro; 4 β -Phorbol 12,13-dibutyrate;
4 α -Phorbol 12,13-didecanoate;
Polymyxin B (Versteeg, D.H.G.)
416, 343

Norepinephrine (see also Noradrenaline)

β -Adrenergic receptor; Supersensitivity;
Morphine dependence; Withdrawal;
Parietal cortex; Receptor binding;
Microiontophoresis (Moises, H.C.)
400, 110

Anteroventral third cerebral ventricle
(AV3V); Catecholamine; Dopamine;
Angiotensin II; Drinking; Blood
pressure; 6-Hydroxydopamine
(Bellin, S.I.) **403**, 105

Glycogen; Adrenergic receptor; Energy
metabolism; Locus coeruleus; Epilepsy
(Magistretti, P.J.) **403**, 181

Cysteamine; Somatostatin; Dopamine;
Cerebrospinal fluid (CSF); Memory;
Activity; Rat (Haroutunian, V.)
403, 234

Catecholamine; Isoproterenol; Parietal
cortex; Prostaglandin; Leukotriene
(Busija, D.W.) **403**, 243

Estrogen receptor; Noradrenergic
system; Prazosin; Hypothalamus;
Progesterin receptor; Catecholamine
(Blaustein, J.D.) **404**, 39

Estrogen receptor; Noradrenergic
system; Yohimbine; Phenylephrine;
Clonidine; Catecholamine;
Hypothalamus; α_2 -Noradrenergic
receptor (Blaustein, J.D.) **404**, 51

Antinociception; Nucleus raphe

- magnus; Serotonin; Spinal cord; Superfusion; Neurotransmitter release (Sagen, J.) **406**, 246
- Kindling; Locus coeruleus; Seizure (Bonhaus, D.W.) **407**, 102
- Kindling antagonism; Neonate; 6-Hydroxydopamine; Brainstem–cerebellum hyperinnervation (Applegate, C.D.) **407**, 212
- Inositol phospholipid; γ -Aminobutyric acid; Hippocampal slice; Neurotransmitters' interaction; γ -Aminobutyric acid agonist (Corradetti, R.) **411**, 196
- Adrenergic receptor; Adrenergic agonist and antagonist; Hypothalamic ventromedial nucleus; Estrogen; Brain slice (Kow, L.-M.) **413**, 220
- Tyrosine hydroxylase; Mediobasal hypothalamus; Acute starvation; Semistarvation (Philipp, E.) **413**, 53
- Na⁺, K⁺-ATPase; Estrous cycle; Ovariectomy; Estrogen; Mediobasal hypothalamus; Preoptic-suprachiasmatic region (Rodríguez del Castillo, A.) **416**, 113
- Amygdala; Brain nucleus; Dopamine; Turnover; Limbic system; α -Methyltyrosine (Kilts, C.D.) **416**, 402
- Acetylcholine; Neurotransmitter interaction; Memory; Rat (Decker, M.W.) **417**, 59
- Tyrosine-hydroxylase; Dopamine; Prolactin; Hyperprolactinemia; Pituitary tumor; Ectopic pituitary (Fernandez-Ruiz, J.J.) **421**, 65
- Locus coeruleus; Medial preoptic area stimulation; Luteinizing hormone; Luteinizing hormone releasing hormone (Gitler, M.S.) **422**, 1
- Aging; Cerebellum; In oculo brain graft; Electrophysiology; In vivo electrochemistry (Granholm, A.-C.) **423**, 71
- Morphine; Presynaptic opiate receptor; Locus coeruleus; Purkinje cell; γ -Aminobutyric acid; Inhibition (Moises, H.C.) **423**, 149
- Hyperalgesia; Nociception; Bradykinin; Leukotriene B₄; Prostaglandin E₂ (Taiwo, Y.O.) **423**, 333
- Hypothalamus; Lamina terminalis; Median preoptic nucleus; Vasopressin; Supraoptic nucleus; Fluid balance; α -Methyl tyrosine (Wilkin, L.D.) **423**, 369
- Electrophysiology; Cultured astrocyte; α_1 -Receptor; Depolarization; Desensitization (Bowman, C.L.) **423**, 403
- Locus coeruleus; Ventrolateral medulla; Antidromic activation; Nucleus paragigantocellularis (Ennis, M.) **425**, 275
- Opiate; Morphine; Naloxone; Opiate withdrawal; Clonidine; Skin temperature (Katovich, M.J.) **426**, 55
- Locus coeruleus; Medial preoptic area stimulation; Luteinizing hormone-releasing hormone; Luteinizing hormone; α -Methyl-*p*-tyrosine; Phenoxybenzamine; Propranolol (Gitler, M.S.) **437**, 332
- Norepinephrine depletion**
Lateral reticular nucleus; Locus coeruleus/subcoeruleus; Stimulation-produced antinociception; Descending inhibition; 6-Hydroxydopamine (6-OHDA); Supersensitivity; α_2 -Adrenoceptor up-regulation (Janss, A.J.) **400**, 40
- Norepinephrine release**
Brain slice; Electrical stimulation; Desipramine; Tyrosine; Hypothalamus; Rat (Irie, K.) **423**, 391
- Norepinephrine secretion**
Rat adrenal medulla; Adrenal medullary secretion; Epinephrine secretion; Subthalamus; Zona incerta (Matsui, H.) **417**, 158
- Norepinephrine turnover**
Sympathetic nervous system; Bombesin; Dopamine β -hydroxylase; 1-Cyclohexyl-2-mercapto-imidazole; Cold exposure (Brown, M.) **400**, 35
- Norepinephrine uptake**
Insulin receptor; Neuron; Phosphorylation; α -Subunit; β -Subunit (Masters, B.A.) **417**, 247
- Normotensive WKY rat**
Renin; Brain cell culture; Immunocytochemistry; Radioimmunoassay; High performance liquid chromatography; Spontaneously hypertensive (SH) rat (Hermann, K.) **437**, 205
- Noxious heat**
Substance P release; Substantia gelatinosa (Duggan, A.W.) **403**, 345
- Noxious pinch**
Calcitonin gene-related peptide; Substance P; Spinal dorsal horn; Capsaicin-induced release; Aversive reaction (Oku, R.) **403**, 350
- Noxious-evoked activity**
Periaqueductal gray; Nucleus raphe magnus; Lateral reticular nucleus; Spontaneous activity; Excitation; Inhibition (Sotgiu, M.L.) **414**, 219
- Desamido-NPY**
Neuropeptide Y; Hypothalamus; Paraventricular nucleus; Adrenocorticotrophic hormone (ACTH); Corticosterone (Wahlestedt, C.) **417**, 33
- NSD-1015**
Dopamine; 3,4-Dihydroxyphenyl-
- alanine (DOPA); Tyrosine hydroxylase; Ventral tegmental area; Nucleus accumbens; Striatum; Olfactory tubercle; Brain-stimulation reward; Food reward (Phillips, A.G.) **402**, 109
- Nuchal muscle activity**
Sleep; Paradoxical sleep deprivation (Pivik, R.T.) **423**, 196
- Nucleotide**
Nerve regeneration; Rat sciatic nerve (Sjöberg, J.) **415**, 270
- Nucleus accumbens**
Lateralization; Activity; Behavior; Asymmetry (Kubos, K.L.) **401**, 147
- Amphetamine; Dopamine release; Intracerebral dialysis; Microdialysis; Stereotypy; Locomotor activity; Striatum (Sharp, T.) **401**, 322
- Dopamine; 3,4-Dihydroxyphenyl-alanine (DOPA); NSD-1015; Tyrosine hydroxylase; Ventral tegmental area; Striatum; Olfactory tubercle; Brain-stimulation reward; Food reward (Phillips, A.G.) **402**, 109
- Neostriatum; Dopamine; *cis*-Flupenthixol; Locomotor activity; Rat (Ahlenius, S.) **402**, 131
- Stereotyped behavior; Apomorphine; Neurotensin; Cholecystokinin; Dopamine (Blumstein, L.K.) **404**, 293
- Nicotine; Dopamine metabolism; Substantia nigra lesion; Reverse tolerance; Caudate nucleus; Hypothermia; Stereotypy (Lapin, E.P.) **407**, 351
- 6-Hydroxydopamine; Rat (Choulli, K.) **407**, 376
- Quantitative autoradiography; Dopamine receptor; Brain dopamine; Substantia nigra; Caudate putamen; Olfactory tubercle (Aiso, M.) **408**, 281
- Thioridazine; Antipsychotic drug; Dopamine release; Striatum; Dopamine cell firing (Lane, R.F.) **408**, 317
- Tail-pinch; 3,4-Dihydroxyphenylacetic acid (DOPAC); Prefrontal cortex; Minor tranquilizer (D'Angio, M.) **409**, 169
- Mianserin; Citalopram; Dopamine release; Adrenoceptor; Striatum (Russell, V.A.) **410**, 78
- Locomotor activity; Dopamine; Ventral pallidum; Dorsomedial nucleus of the thalamus; Medial prefrontal cortex; Pedunculopontine nucleus; Apomorphine; Picrotoxin; Behavior (Swerdlow, N.R.) **412**, 233
- Ventral tegmental area; Morphine; Enkephalin; μ -Opioid receptor; Locomotor activity; Sensitization; Dopamine (Vezina, P.) **417**, 51
- Weaver mutant mouse; Dopamine; Dopamine D₂ receptor binding assay;

[³H]Spiperone; Striatum;
Supersensitivity (Kaseda, Y.) **422**, 178

Neostriatum; D₂-receptor;
DA/ACh-release; Cyclic AMP
(Stoof, J.C.) **423**, 364

Neurotensin; Modulation; Dopamine
release; Desipramine (Reyneke, L.)
425, 114

Self-stimulation; Genetic; Stress
(Zacharko, R.M.) **426**, 164

[³H]Dopamine release; In vitro release;
D₂ receptor; Apomorphine;
Desenkephalin- γ -endorphin; Dopamine
agonist; Dopamine antagonist
(Radhakishun, F.S.) **426**, 235

6-Hydroxydopamine lesion; Opioid
receptor; Hypersensitivity; Rat
(Esposito, E.) **436**, 25

Iminodipropionitrile; ECC-syndrome;
¹²⁵I-LSD binding site; 5-HT-2 receptor;
Frontal cortex; Striatum;
Autoradiography (Cadet, J.L.)
437, 383

Nucleus ambiguus

Serotonin; Raphe obscurus; Raphe
pallidus; Phrenic motor nucleus
(Holtman Jr., J.R.) **417**, 12

Vagus; Glossopharyngeal; Accessory
nerve; Elasmobranch; Horseradish
peroxidase (Barry, M.A.) **425**, 159

Nucleus basalis

Cholinergic pathway; Primate
(Kitt, C.A.) **406**, 192

Choline acetyltransferase;
Somatostatin; Noradrenaline;
5-Hydroxytryptamine; Neocortex;
Excitotoxin; Alzheimer's disease
(Fine, A.) **406**, 326

Acetylcholine release; Cerebral cortex;
Nucleus basalis of Meynert;
Alzheimer's disease (Gardiner, I.M.)
407, 263

Excitotoxin; Choline acetyltransferase;
Neurotoxicity; Quinolinic acid
(Boegman, R.J.) **417**, 315

Cortex; Cholinergic; Somatostatin;
Immunohistochemistry; Rat
(Mufson, E.J.) **417**, 385

Nucleus basalis cell

Tyrosine hydroxylase; Choline
acetyltransferase;
Immunohistochemistry;
Co-localization; Ferret (Henderson, Z.)
412, 363

Nucleus basalis of Meynert

Acetylcholine release; Nucleus basalis;
Cerebral cortex; Alzheimer's disease
(Gardiner, I.M.) **407**, 263

Kinsmen Substance P;
Acetylcholinesterase;
Immunohistochemistry; Alzheimer's
disease; Human brain (Beach, T.G.)
408, 251

Alzheimer's disease; Nerve cell count
(Doucette, R.) **422**, 357

Nucleus centralis superior

Median raphe nucleus; Locomotor
activity; Kainic acid; Excitatory amino
acid (Wirtshafter, D.) **408**, 349

Nucleus cuneatus

Nucleus gracilis; Basilar pontine
nucleus; Plasticity (Kosinski, R.J.)
406, 302

Nucleus gracilis

Nucleus cuneatus; Basilar pontine
nucleus; Plasticity (Kosinski, R.J.)
406, 302

Nucleus hyperstriatum ventrale, pars caudale

Estrogen receptor; Brain;
Immunocytochemistry; Canary; Zebra
finch (Gahr, M.) **402**, 173

Nucleus isthmi

Choline acetyltransferase; Frog;
Immunohistochemistry; Optic tectum;
Rana pipiens (Desan, P.H.) **413**, 344

Nucleus lateralis posterior

Superior colliculus; Dorsal lateral
geniculate nucleus; Ventral lateral
geniculate nucleus; Parabigeminal
nucleus; Pretectal area
(Lugo-Garcia, N.) **426**, 131

Nucleus of Darkschewitsch

Climbing fiber projection; Cerebellar
cortex; Midbrain; Cat (Jeneskog, T.)
412, 185

Nucleus of the optic tract

Inferior olive; γ -Aminobutyric acid;
Horseradish peroxidase;
Tetramethylbenzidine; Monkey; Cat;
Rat (Horn, A.K.E.) **409**, 133

Nucleus of the spinal tract of the trigeminal nerve

Morphine; Oxymorphone; Nalbuphine;
Cerebral glucose utilization; Opioid
receptor; Analgesia; Thalamus
(Fanelli, R.J.) **422**, 257

Nucleus parafascicularis

Amygdala; Kindled epilepsy; Learning;
Hypophysectomy; Adrenocorticotrophic
hormone (Rogers III, O.L.) **403**, 96

Nucleus paragigantocellularis

Locus coeruleus; Ventrolateral
medulla; Antidromic activation;
Norepinephrine (Ennis, M.) **425**, 275

Nucleus prepositus

Vestibular nucleus; Choline
acetyltransferase; Cell group x; Cell
group z (Carpenter, M.B.) **418**, 403

Nucleus raphe magnus

Antinociception; Norepinephrine;
Serotonin; Spinal cord; Superfusion;
Neurotransmitter release (Sagen, J.)
406, 246

Voltammetry; Spinal cord;

5-Hydroxyindole; Morphine;
Probenecid (Chiang, C.-Y.) **411**, 259

Periaqueductal gray; Lateral reticular
nucleus; Spontaneous activity;
Noxious-evoked activity; Excitation;
Inhibition (Sotgiu, M.L.) **414**, 219

Neurotensin; Analgesia; Pain;
Microinjection; Brainstem (Fang, F.G.)
420, 171

Nucleus raphe pallidus

Cholera toxin; Retrograde tracer;
Hypothalamus; Peptide; Cat
(Luppi, P.-H.) **402**, 339

Nucleus reticularis gigantocellularis

Reticular formation; Spinal cord;
Motoneuron; Inhibitory postsynaptic
potential (IPSP); Sleep; Glycine;
 γ -Aminobutyric acid (Soja, P.J.)
423, 353

Nucleus reticularis

paragigantocellular lateralis

Substance P; Ventral medulla;
Retrograde transport;
Rhodamine-labeled latex microsphere;
Intermediolateral cell column
(Charlton, C.G.) **418**, 245

Nucleus retroambigualis

Expiratory neuron; Intracellular
recording; Postsynaptic potential;
Horseradish peroxidase; Axon
collateral; Antidromic stimulation
(Arita, H.) **401**, 258

Nucleus submedius

Thalamus; Synaptic glomerulus; Glia;
Trigeminal nucleus (Ma, W.) **415**, 331

Nucleus tractus solitarius

γ -Aminobutyric acid (GABA); Blood
pressure; Vasopressin;
Neurotransmitter; Hypertension;
Muscimol (Catelli, J.M.) **403**, 279

Angiotensin II; Respiratory neurone;
Brainstem; Sensory physiology;
Respiration (Sessle, B.J.) **407**, 163

Avian; Respiration; Vocalization;
Parabrachial nucleus; Tracheosyringeal
motor nucleus (nXIIts) (Wild, J.M.)
407, 191

Baroreflex; Ventrolateral medulla;
Excitatory amino acid (Guyenet, P.G.)
407, 272

Convergence; Gustatory; Anterior
tongue; Posterior oral cavity; Hamster;
Breadth of responsiveness
(Sweazey, R.D.) **408**, 173

Respiratory neuron; Antidromic
mapping; Descending pathway
(Jiang, C.) **413**, 189

Substance P; Substance P antagonist;
Blood pressure; Heart rate; Rat
(Kubo, T.) **413**, 379

Taste; Sensory coding; Toxicity; LD₅₀;
Electrophysiology; Multidimensional
scaling (Scott, T.R.) **414**, 197

Area postrema; Blood pressure; Heart

rate; Dorsal motor nucleus of the vagus (Averill, D.B.) **414**, 294

Respiration; Medullary respiratory neuron; Phrenic nerve; Antidromic stimulation; Cross-correlation; Rat (Saether, K.) **419**, 87

Autonomic; Baroreceptor reflex; Blood pressure; Catecholamine; Microiontophoresis; Single unit (Feldman, P.D.) **420**, 351

Neurohypophyseal peptide; Noradrenaline; Peptide/amine interaction; Blood pressure; Brattleboro rat (Vallejo, M.) **422**, 295

Substance P; Blood pressure regulation; Capsaicin; (D-Pro², D-Trp^{7,9})-substance P (Luković, L.) **422**, 312

Analgesia; Stimulation-produced analgesia; Opioid peptide; Naloxone; Pain; Pain-inhibition (Lewis, J.W.) **424**, 65

Baroreceptor area; Adrenocorticotrophic hormone (ACTH); β -Endorphin; α -Melanocyte-stimulating hormone (α -MSH); Brainstem lesion; Hypothalamus (Palkovits, M.) **436**, 323

Nucleus ventralis lateralis (VL)
Thalamus; Nucleus ventralis posterolateralis (VPL); Sensory cortex; Motor deficit (Bornschlegl, M.) **437**, 121

Nucleus ventralis posterolateralis
Cardiac pain; Thalamus; Nociception; Viscerosomatic convergence; Cat (Taguchi, H.) **436**, 240

Nucleus ventralis posterolateralis (VPL)
Thalamus; Nucleus ventralis lateralis (VL); Sensory cortex; Motor deficit (Bornschlegl, M.) **437**, 121

O

O₂
Nervous system injury; PH; Brain cell culture; Neuron; Astrocyte; Differentiation; Neurofilament protein; Glial fibrillary acidic protein (Bologa, L.) **411**, 282

Obesity
Monosodium glutamate; Bipiperidyl mustard; Cholecystokinin; Ventromedial hypothalamus; Paraventricular nucleus; Insulin; Hyperphagia; Feeding (Scallet, A.C.) **407**, 390

Rat; Ventromedial hypothalamic nucleus; Ibotenic acid; Food intake;

Hyperphagia; Body weight (Shimizu, N.) **416**, 153

Transplant; Neural graft; Ventromedial hypothalamus; Lesion; Hyperphagia; Feeding; Consummatory behavior (Mickley, G.A.) **424**, 239

Occipital cortex

Ventral tegmental area; Forebrain; Substantia nigra pars compacta; Neuroanatomical differentiation; Horseradish peroxidase; Retrograde double labeling; Rat (Takada, M.) **418**, 27

Octopus vulgaris brain

Serotonin; Formaldehyde; Antibody; Chromatophore lobe; Palliovisceral lobe; Peroxidase-antiperoxidase (PAP) method (Uemura, T.) **406**, 73

Octopamine

Proctolin; Release; Visceral muscle; Insect (Orchard, I.) **413**, 251

Noradrenaline; Locus coeruleus; False transmitter; High-performance liquid chromatography (HPLC); Radioenzymatic assay (Hicks, T.P.) **421**, 315

Neurosecretion; Corpus cardiacum; Adipokinetic hormone; Cyclic adenosine monophosphate; Calcium; Locust (Pannabecker, T.) **423**, 13

Ocular dominance

Visual cortex; Corpus callosum; Binocular interaction; Stereopsis; Disparity-sensitive neuron; Depth perception; Nasotemporal overlap; Cat (Gardner, J.C.) **413**, 60

Oculomotor area

Eye movement; Monocular movement; Frontal eye field; Coronal sulcus; Anterior ectosylvian sulcus; Cat (Nakai, M.) **414**, 91

Oculomotor nucleus

Choline acetyltransferase; Edinger-Westphal nucleus; Anteromedian nucleus; Ciliary ganglion; Immunocytochemistry; Retrograde transport; Double labelling (Strassman, A.) **423**, 293

Oculomotor system

Frontal eye field; Precruciate cortex; Presylvian cortex; Gyrus proreus; Prefrontal cortex; Paramedian pontine reticular formation; Cat; Horseradish peroxidase (Leichnetz, G.R.) **416**, 195

Paramedian pontine reticular formation; Brainstem afferent; Horseradish peroxidase; Cat; Eye movement (Leichnetz, G.R.) **422**, 389

Odor

Mixture suppression; Psychophysics; 2-Deoxyglucose; Olfactory epithelium; Odor polarity; Human; Rat (Bell, G.A.) **426**, 8

Odor learning

Odor processing; Spatial coding;

2-Deoxyglucose; Olfactory bulb; Olfactory epithelium; Suckling pheromone; Newborn rabbit (Hudson, R.) **421**, 85

Odor polarity

Odor; Mixture suppression; Psychophysics; 2-Deoxyglucose; Olfactory epithelium; Human; Rat (Bell, G.A.) **426**, 8

Odor processing

Spatial coding; 2-Deoxyglucose; Olfactory bulb; Olfactory epithelium; Suckling pheromone; Odor learning; Newborn rabbit (Hudson, R.) **421**, 85

Odor response

Olfactory bulb; Optical signal; Salamander (Kauer, J.S.) **418**, 255

Off-vertical-axis rotation

Otolith; Semicircular canal; Vestibulo-ocular reflex; Optokinetic nystagmus; Cat; Velocity store (Harris, L.R.) **437**, 393

Olfaction

Central nervous system (CNS); Electrophysiology; Cortex; Field potential; Interdependence; Correlation (Bressler, S.L.) **409**, 285

Central nervous system (CNS); Electrophysiology; Cortex; Field potential; Modelling; Transmission (Bressler, S.L.) **409**, 294

Partition coefficient; Regeneration; Receptor (Hornung, D.E.) **413**, 147

Conscious; Respiration; Brainstem; Action potential (Du Pont, J.S.) **414**, 163

Olfactory bulb; Olfactory discrimination; Olfactory coding; 2-Deoxyglucose (Slotnick, B.M.) **417**, 343

Lobster; Electrophysiology; Neurotransmitter; Purinergic; Adenosine; Adenosine monophosphate (Derby, C.D.) **421**, 57

Horseradish peroxidase; Topography; Nasal cavity; Bulbar glomerulus (Astic, L.) **424**, 144

Olfactory axon

Microtubule; Microtubule length; Microtubule number; Frog olfactory axon; Axonal microtubule; Axon (Burton, P.R.) **409**, 71

Olfactory bulb

Noradrenaline release; γ -Aminobutyric acid (GABA); Presynaptic control; Rat (Gervais, R.) **400**, 151

Glutamate; Immunocytochemistry; Lateral olfactory tract; Mitral cell; N-Acetyl-aspartyl-glutamate; Neuropeptide (Blakely, R.D.) **402**, 373

Dopamine; Tyrosine hydroxylase; γ -Aminobutyric acid; Glutamic acid decarboxylase; Coexistence; Postnatal

development; Immunohistochemistry (Kosaka, K.) **403**, 355

Response pattern (Schild, D.) **405**, 364

Olfactory epithelium; Horseradish peroxidase (Stewart, W.B.) **411**, 248

γ -Aminobutyric acid (GABA); Peptide; Parvalbumin; Coexistence; Immunohistochemistry (Kosaka, T.) **411**, 373

Substance P; γ -Aminobutyric acid (GABA); Glomerular cell layer; Electrophysiology; Slice (Olpe, H.R.) **412**, 269

γ -Aminobutyric acid; Catecholamine; Coexistence; Plasticity; Immunohistochemistry (Kosaka, T.) **413**, 197

Transplantation; Gonadotropin-releasing hormone; Hypogonadism; Trophic factor; Terminal sprouting; Graft (Perlow, M.J.) **415**, 158

Lateral inhibition; Olfactory processing; Mitral cell; Olfactory bulb glomerulus; Periglomerular cell (Wilson, D.A.) **417**, 175

Olfaction; Olfactory discrimination; Olfactory coding; 2-Deoxyglucose (Slotnick, B.M.) **417**, 343

Optical signal; Salamander; Odor response (Kauer, J.S.) **418**, 255

Mammalian brain; Primate brain; α_1 -Adrenoceptor; Autoradiography; Hippocampus (Palacios, J.M.) **419**, 65

Odor processing; Spatial coding; 2-Deoxyglucose; Olfactory epithelium; Suckling pheromone; Odor learning; Newborn rabbit (Hudson, R.) **421**, 85

Olfactory bulb glomerulus
Olfactory bulb; Lateral inhibition; Olfactory processing; Mitral cell; Periglomerular cell (Wilson, D.A.) **417**, 175

Olfactory bulbectomy
Androgen receptor binding; Amygdala; Hypothalamus; Copulation (Lumia, A.R.) **404**, 121

Olfactory cilia
Lectin; Glycoprotein; Chemosensory receptor; Western blotting (Kalinowski, D.L.) **418**, 34

Olfactory coding
Olfaction; Olfactory bulb; Olfactory discrimination; 2-Deoxyglucose (Slotnick, B.M.) **417**, 343

Olfactory discrimination
Olfaction; Olfactory bulb; Olfactory coding; 2-Deoxyglucose (Slotnick, B.M.) **417**, 343

Olfactory epithelium
Olfactory bulb; Horseradish peroxidase (Stewart, W.B.) **411**, 248

Odor processing; Spatial coding;

2-Deoxyglucose; Olfactory bulb; Suckling pheromone; Odor learning; Newborn rabbit (Hudson, R.) **421**, 85

Odor; Mixture suppression; Psychophysics; 2-Deoxyglucose; Odor polarity; Human; Rat (Bell, G.A.) **426**, 8

Olfactory glomerulus
Mouse; 2-Deoxyglucose (2-DG); Computer-assisted image analysis (Royet, J.P.) **417**, 1

Olfactory interneuron
Crayfish; Serotonin-like immunoreactivity (Sandeman, R.E.) **403**, 371

Olfactory organ
Malformation; Prosencephalon; Cyclopia; Amphibian (Magrassi, L.) **412**, 386

Olfactory processing
Olfactory bulb; Lateral inhibition; Mitral cell; Olfactory bulb glomerulus; Periglomerular cell (Wilson, D.A.) **417**, 175

Olfactory receptor cell
Vomerolateral receptor cell; Neuronal subset; Lactoseries carbohydrate; Monoclonal antibody (Mori, K.) **408**, 215

Olfactory system
Transsynaptic transport; Wheat germ agglutinin (Itaya, S.K.) **409**, 205

Memory; Long-term potentiation; Synaptic plasticity (Roman, F.) **418**, 221

Olfactory tubercle
Dopamine; 3,4-Dihydroxyphenylalanine (DOPA); NSD-1015; Tyrosine hydroxylase; Ventral tegmental area; Nucleus accumbens; Striatum; Brain-stimulation reward; Food reward (Phillips, A.G.) **402**, 109

Na^+ , K^+ -ATPase; Ouabain binding; Deafferentation (Swann, A.C.) **404**, 323

Striatum; Pallidum; Mediodorsal nucleus; Horseradish peroxidase; Degeneration; Electron microscopy (Zahm, D.S.) **404**, 327

Quantitative autoradiography; Dopamine receptor; Brain dopamine; Substantia nigra; Caudate putamen; Nucleus accumbens (Aiso, M.) **408**, 281

Oligodendrocyte
Astrocyte; Glycosylation; Neural-cell adhesion molecule (Bhat, S.) **412**, 144

Mouse; Myelination; Intracerebral transplantation; Cell migration; Shiverer model (Baulac, M.) **420**, 39

Monoclonal antibody; 2':3'-Cyclic nucleotide 3'-phosphodiesterase (CNPase); Schwann cell; Cell marker enzyme; Wolfgram protein fraction

(Sprinkle, T.J.) **426**, 349

Olivocochlear bundle
Abducens nucleus; Choline acetyltransferase; Leucine enkephalin; Periolivary nucleus; Superior olivary complex; Vestibular efferent neuron (Carpenter, M.B.) **408**, 275

On-Off ganglion cell
Retina; Enkephalin; γ -Aminobutyric acid; Coexistence; Intracellular recording; Larval tiger salamander (Watt, C.B.) **408**, 258

Ontogenesis
Peptide-histidine-isoleucine (PHI)-containing neuron; Suprachiasmatic nucleus; Hypothalamus (Ishikawa, K.) **407**, 144

Ontogenetic development
Peripheral benzodiazepine binding site; [^3H]PK 11195; Brain; Heart; Lung (Fares, F.) **408**, 381

Ontogeny
Neurotensin; Binding; Rat brain (Schotte, A.) **408**, 326

Muscarinic acetylcholine receptor; M_1 - and M_2 -receptors; Rat brain; In vitro autoradiography (Miyoshi, R.) **420**, 302

Adenosine uptake; Nitrobenzylthioinosine; Adenosine deaminase; Brain (Geiger, J.D.) **436**, 265

Open channel block
Frog sensory neuron; Ca current; Ca antagonist; Concentration clamp (Oyama, Y.) **417**, 143

Open-field
Hyperbilirubinemia; Bilirubin encephalopathy; Rat; Behavior; Blood-brain barrier; Free bilirubin; Exploration (Hansen, T.W.R.) **424**, 26

Operant behavior
Hippocampal transplant; Hippocampal lesion; Differential reinforcement of low response rate (DRL); Recovery of function (Woodruff, M.L.) **408**, 97

Intracerebroventricular; NaCl; Angiotensin II; Body fluid balance; Drinking behavior (Weisinger, R.S.) **420**, 135

Operant conditioning
Biogenic amine; Brain; Handedness (Schwartz, R.) **417**, 75

Operant feeding
Lateral hypothalamus; Single neuron activity; Monkey; Electrophoresis; Dopamine; Noradrenaline; Cue response; Reward (Nishino, H.) **405**, 56

Opiate
Neurotoxicity; Cytotoxicity; Dextrophan; Dextromethorphan; Glutamate; Cortex; Cell culture (Choi, D.W.) **403**, 333

Analgesia; 3 α -Hydroxy-5 α -

egnan-20-one (3A5P); Steroid;
calcium channel antagonist;
enzodiazepine (Kavaliers, M.)
5, 393

Pregnancy; Lactation; Gonadal steroid;
neoptic area (Hammer Jr., R.P.)
0, 48

Morphine; Naloxone; Opiate
withdrawal; Clonidine;
Norepinephrine; Skin temperature
(Katovich, M.J.) 426, 55

Morphine; γ -Aminobutyric acid;
5,6,7-Tetrahydroisoxazolo-
4-c]pyridin 3-ol (THIP); Picrotoxin;
Microinjection; Periaqueductal gray;
Rat; Analgesia; Pain-inhibition
(Depaulis, A.) 436, 223

Opiate physical dependence

Conditioned place preference;
Withdrawal distress; Naltrexone;
Quaternary naltrexone; Morphine
relief; Abstinence motivation
(Lucha, R.F.) 418, 214

Opiate receptor

Striatum; Compartment;
[H]Thymidine; Development (Van der
Booy, D.) 401, 155

[H]Cyclofoxy; Positron emission
tomography (PET); Naloxone; In vivo
autoradiography; Autoradiography;
Cyclofoxy; Radiolabeled opiates;
Naltrexone; Rat brain; Opiate receptor
distribution;

6-Deoxy- β -fluoronaltrexone
(Ostrowski, N.L.) 402, 275

In vivo autoradiography; Drinking;
Reinforcement; Opioid; Deprivation
(Blake, M.J.) 413, 111

Human brain; Autoradiography
(Cross, A.J.) 418, 343

Sex difference; Golden hamster;
Peromyscus auratus; Naloxone;
Hypothalamus; Brain differentiation;
Sexual dimorphism;
[3 H]-Ala², D-Leu⁵]Enkephalin binding;
Sexually dimorphic nucleus
(Ostrowski, N.L.) 421, 1

Receptor; κ -Receptor; Naloxone;
Morphine; MR 2034; Corticotropin
releasing factor (CRF);
Adrenocorticotrophic hormone (ACTH)
(Nikolarakis, K.) 421, 373

Enkephalin; Dopamine; Chicken
retina; 6-Hydroxydopamine
(Wu, Y.Y.T.) 423, 63

Brain stimulation; Reward; Aversive
footshock; In vivo autoradiography
(Blake, M.J.) 435, 181

Opiate receptor distribution

[H]Cyclofoxy; Positron emission
tomography (PET); Opiate receptor;
Naloxone; In vivo autoradiography;
autoradiography; Cyclofoxy;
Radiolabeled opiates; Naltrexone; Rat
brain; 6-Deoxy- β -fluoronaltrexone

(Ostrowski, N.L.) 402, 275

Opiate tolerance

Morphine analgesia; Periaqueductal
gray (Siuciak, J.A.) 424, 311

Opiate withdrawal

Opiate; Morphine; Naloxone;
Clonidine; Norepinephrine; Skin
temperature (Katovich, M.J.) 426, 55

κ -Opiate receptor

Autoradiography; Brattleboro rat;
Dehydration; Dynorphin; Receptor
localization; Vasopressin (Brady, L.S.)
425, 212

Opioid

Receptor; Enkephalin;
Radioautography; Neostriatum;
Electron microscopy (Hamel, E.)
401, 239

Enkephalin; Cholecystokinin;
Neuropeptide; Nociception;
Periaqueductal gray matter;
Neurotransmitter coexistence (Gall, C.)
403, 403

Periaqueductal grey; Stimulation;
Analgesia; β -Endorphin; Prolactin;
Stress (Millan, M.J.) 407, 199

In vivo autoradiography; Drinking;
Reinforcement; Opiate receptor;
Deprivation (Blake, M.J.) 413, 111

Development; Cerebellum; Cerebral
cortex; Hippocampus; Dentate gyrus
(Hauser, K.F.) 416, 157

β -Endorphin; Dynorphin; Opioid
receptor; Pain; Arthritis;
Periaqueductal grey (Millan, M.J.)
416, 349

Pertussis toxin; Adenosine diphosphate
ribosylation; G-protein; Adenylate
cyclase (Abood, M.E.) 417, 70

ORG 2766; ACTH₄₋₁₀; Motor activity;
Short-term isolation; Naltrexone
(Wolterink, G.) 421, 41

Memory; Retention; Naloxone;
Nalmefene (Flood, J.F.) 422, 218

Dynorphin; Feeding; Lateral
hypothalamus (Carr, K.D.) 422, 384

Brain stimulation reward; Ventral
tegmental area; Lateral hypothalamus
(Jenck, F.) 423, 34

Feeding; Ventral tegmental area;
Periaqueductal gray; Lateral
hypothalamus (Jenck, F.) 423, 39

Periaqueductal gray; Opioid receptor;
Pain; Nociception; Tolerance;
Conditioning (Millan, M.J.) 435, 97

Dopamine; Morphine; U-69593; SCH
23390; Reinforcement; Motivation;
Place conditioning (Shippenberg, T.S.)
436, 169

Place conditioning; δ -Receptor;
Reinforcement; [D-Pen²,
D-Pen⁵]-Enkephalin (DPDPE); ICI
174,864; Morphine (Shippenberg, T.S.)

436, 234

Neurohypophysis; Oxytocin release;
Potassium channel; Naloxone;
4-Aminopyridine; Tetraethylammonium
ion (Racké, K.) 436, 371

Dynorphin A; Spinal cord; Blood flow;
Naloxone; Paralysis (Long, J.B.)
436, 374

Opioid analgesia

Pregnancy; Naltrexone; Spinal cord
(Sander, H.W.) 408, 389

Analgesia; Activity; Stress;
Stress-induced analgesia; Calcium
channel antagonist; Diltiazem;
Nifedipine; Verapamil; BAY K 8644
(Kavaliers, M.) 408, 403

Non-opioid analgesia; Stress;
Naloxone; ICI 154,129;
 β -Funaltrexamine (B-FNA); Snail;
Evolution (Kavaliers, M.) 410, 111

Analgesia; Calcium channel antagonist;
Phe-Met-Arg-Phe-NH₂ (FMRFamide);
Morphine; Stress; Stress-induced
analgesia; Immobilization; Naloxone
(Kavaliers, M.) 415, 380

Hypophysectomy; Dexamethasone;
 β -Endorphin; Pregnancy (Baron, S.A.)
418, 138

Activity; Stress-induced analgesia;
Immobilization; Naloxone; ICI 154,
129; Deer mice; *Peromyscus*
maniculatus; Sex; Genetic;
Island-Mainland population
(Kavaliers, M.) 425, 49

Opioid binding

Hippocampus; Kindling;
Autoradiography; Mu opioid peptide;
Delta opioid peptide (Crain, B.J.)
412, 343

Opioid network

Pertussis toxin; Dorsal horn response;
Primary afferent network; Spinal cord
culture; Adenylate cyclase/cyclic AMP
system (Crain, S.M.) 400, 185

Opioid peptide

Antinociception; Substantia nigra;
Morphine (Baumeister, A.A.) 411, 183

Spinal cord; Chronic foot shock; Pain
(Przewlocki, R.) 413, 213

Pulsatile; Luteinizing hormone;
Estradiol; Progesterone; Naloxone;
Morphine (Babu, G.N.) 416, 235

Enkephalin; Morphine; Adenylate
cyclase; Cochlea; Lateral olivocochlear
system; Guinea pig (Eybalin, M.)
421, 336

Transforming growth factor- α ;
Fluoro-Gold;
Met-enkephalin-Arg-Gly-Leu
(MERGL) peptide; Leu-enkephalin
peptide; Co-localization;
Interpeduncular nucleus; Raphe
nucleus (Code, R.A.) 421, 401

Analgesia; Stimulation-produced

analgesia; Naloxone; Nucleus tractus solitarius; Pain; Pain-inhibition (Lewis, J.W.) **424**, 65

Spinothalamic tract; Trigeminothalamic tract; Dorsal horn; Nociception (Coffield, J.A.) **425**, 380

Hippocampus; Perforant path; Amino acid; Wet dog shake; Enkephalin; Dynorphin; γ -Aminobutyric acid (GABA) (Mitchell, C.L.) **435**, 343

Opioid receptor

Solubilization; Glycooxycholate/NaCl; Receptor type; Dilution (Maruyama, M.) **401**, 14

Endogenous opioid; Cerebellum; Naltrexone; Methionine-enkephalin; Growth; Autoradiography; Cell proliferation (Zagon, I.S.) **412**, 68

Spinal cord; μ -Opioid; δ -Opioid; Nociception; Analgesia; Intrathecal opioid; Rat dorsal horn; Enkephalin (Dickenson, A.H.) **413**, 36

Selective ligand; δ -Enkephalin analogue; Discriminative binding property; Parkinson's disease; Human brain (Delay-Goyet, P.) **414**, 8

β -Endorphin; Dynorphin; Opioid; Pain; Arthritis; Periaqueductal grey (Millan, M.J.) **416**, 349

Morphine; Oxymorphone; Nalbuphine; Cerebral glucose utilization; Analgesia; Thalamus; Nucleus of the spinal tract of the trigeminal nerve (Fanelli, R.J.) **422**, 257

C₆ cell; Appearance; β -Receptor; Down-regulation (Reggiani, A.) **423**, 254

Medial preoptic area; Mediobasal hypothalamus; Testosterone; β -Endorphin; Neuropeptide Y; Neurotensin; Sexual differentiation; Rat (Diez-Guerra, F.J.) **424**, 225

Morphine; Naloxone; Naltrexone; Antinociception; Upregulation (Stevens, C.W.) **425**, 388

Periaqueductal gray; Opioid; Pain; Nociception; Tolerance; Conditioning (Millan, M.J.) **435**, 97

Nucleus accumbens; 6-Hydroxydopamine lesion; Hypersensitivity; Rat (Esposito, E.) **436**, 25

Neutral endopeptidase; Caudate putamen; Globus pallidus; Substantia nigra; Kainic acid; Colchicine; 6-Hydroxydopamine (Waksman, G.) **436**, 205

δ -Opioid receptor

Opioid receptor; Spinal cord; μ -Opioid; Nociception; Analgesia; Intrathecal opioid; Rat dorsal horn; Enkephalin (Dickenson, A.H.) **413**, 36

Receptor autoradiography; Upregulation; μ Opioid receptor; κ Opioid receptor; Amygdala; Naloxone (Paden, C.M.) **418**, 349

Thermal antinociception; Brain; Spinal cord (Heyman, J.S.) **420**, 100

μ -Opioid receptor

Opioid receptor; Spinal cord; δ -Opioid; Nociception; Analgesia; Intrathecal opioid; Rat dorsal horn; Enkephalin (Dickenson, A.H.) **413**, 36

Ventral tegmental area; Nucleus accumbens; Morphine; Enkephalin; Locomotor activity; Sensitization; Dopamine (Vezina, P.) **417**, 51

Receptor autoradiography; Upregulation; δ Opioid receptor; κ Opioid receptor; Amygdala; Naloxone (Paden, C.M.) **418**, 349

κ -Opioid receptor

κ -Agonist; Intrathecal administration; Spinal cord; Rat dorsal horn; Antinociception; Analgesia; U50488H; Ethylketocyclazocine; Dynorphin A₁₋₁₃ (Knox, R.J.) **415**, 21

Receptor autoradiography; Upregulation; μ Opioid receptor; δ Opioid receptor; Amygdala; Naloxone (Paden, C.M.) **418**, 349

Opioid reward

Conditioned place preference; Dopamine; Microinjection; Morphine; Reward system; Ventral tegmental area (Bozarth, M.A.) **414**, 77

Opsin

Photoreceptor; Müller cell; Monoclonal antibody; Immunocytochemistry; Electron microscopy; Cell interaction (Akagawa, K.) **437**, 298

Optic lobe

Visual deprivation; Pattern discrimination; Fly; Behavior; Compound eye (Mimura, K.) **437**, 97

Optic nerve

Shaking pup; Myelin-deficient rat; Mosaicism; Spinal cord (Duncan, I.D.) **402**, 168

Myelin deficient rat; Axonal undercoating (Blakemore, W.F.) **403**, 361

Demyelination; Reactive astrocyte; Shared antigen; Glialfibrillary acidic protein antibody; Galactocerebroside antibody (Carroll, W.M.) **411**, 364

Axonal transport; Node of Ranvier; Glycoprotein; Sciatic nerve (Armstrong, R.) **412**, 196

Neurofilament; Phosphorylation; Retina; Myelination (Sloan, K.E.) **437**, 365

Optic system

Microphthalmic snake (Reperant, J.) **408**, 233

Optic tectum

Choline acetyltransferase; Frog; Immunohistochemistry; Nucleus isthmus; *Rana pipiens* (Desan, P.H.) **413**, 344

Enkephalin; Evolution; Frog; Hypothalamus; Immunocytochemistry; Peptide; Toad (Merchenthaler, I.) **416**, 219

Teleost; Retinofugal projection; Visual system; Laminated structure; Retinotectal (von Bartheld, C.S.) **420**, 277

Retina; Kainic acid; Ganglion cell; Trophic factor; Development; Horseradish peroxidase (Tung, N.N.) **435**, 153

Optic tract

Lateral geniculate nucleus; Superior colliculus; Retina; Dipeptide; Immunohistochemistry; High-performance liquid chromatography (Anderson, K.J.) **411**, 172

Optic tract nucleus

Accessory optic system; Direction selectivity; Optokinetic nystagmus; Pretectum (Natal, C.L.) **419**, 320

Optical signal

Olfactory bulb; Salamander; Odor response (Kauer, J.S.) **418**, 255

Optokinetic nystagmus

Accessory optic system; Direction selectivity; Optic tract nucleus; Pretectum (Natal, C.L.) **419**, 320

Otolith; Semicircular canal;

Off-vertical-axis rotation; Vestibulo-ocular reflex; Cat; Velocity store (Harris, L.R.) **437**, 393

Optokinetic reflex

Vestibulo-ocular reflex; Semicircular canal; Otolith; Rabbit; Linear acceleration; Angular acceleration; Eye movement (Barmack, N.H.) **424**, 89

Adaptive plasticity; Eye movement; Vestibuloocular reflex; Rabbit (Barmack, N.H.) **437**, 111

Oral cavity

Infrared sensitive; Snake; Trigeminal (Dickman, J.D.) **400**, 365

Oral structure

Somatosensory cortex; Tactile sensation; Bilateral representation; Somatotopic representation; Cytoarchitectural organization (Taira, K.) **409**, 41

Orchidectomy

Testosterone; Catecholamine; Serotonin; Hypothalamus; Cerebral cortex; Spinal cord (Battaner, E.) **425**, 391

ORG 2766

ACTH₄₋₁₀; Motor activity; Short-term isolation; Opioid; Naltrexone (Wolterink, G.) **421**, 41

Organ culture

Circadian rhythm; Suprachiasmatic nucleus; Pacemaker; Vasopressin (Earnest, D.J.) **422**, 398

Organelle movement

Axon; Axonal transport; Mitochondria; Video microscopy (Forman, D.S.) **412**, 96

Organic acid transport

Valproic acid; Anticonvulsant; Cerebrospinal fluid; Biogenic amine metabolite; Lactic acid (MacMillan, V.) **420**, 268

Organotypic culture

Androgen; Developing spinal cord; Testosterone metabolism; Aromatase; 5 α -Reductase; Neurotrophic factor (Hauser, K.F.) **406**, 62

Organotypic tissue culture

β -N-Methylamino-L-alanine (BMAA); β -N-Oxalylamino-L-alanine (BOAA); 2-Amino-7-phosphonoheptanoic acid (AP7); *cis*-2,3-Piperidine dicarboxylic acid (PDA); Glutamate receptor antagonism (Ross, S.M.) **425**, 120

Organum vasculosum lamina terminalis (OVLT)

Drinking; Water deprivation; Anterior region of the third cerebral ventricle (AV3V); Sodium excretion (Thornton, S.N.) **437**, 339

Ornithine

Proline; Arginine; Formoguanamine (2,4-diamino-S-triazine); Brain; Retina; Ornithine- δ -aminotransferase; Δ^1 -Pyrroline-5-carboxylate reductase (Matsuzawa, T.) **413**, 314

Ornithine decarboxylase

Wallerian degeneration; Mitosis; Endothelial cell; RNA; Protein synthesis (Oaklander, A.L.) **419**, 39

Ornithine- δ -aminotransferase

Proline; Ornithine; Arginine; Formoguanamine (2,4-diamino-S-triazine); Brain; Retina; Δ^1 -Pyrroline-5-carboxylate reductase (Matsuzawa, T.) **413**, 314

Oscillation

Bursting neuron; Potassium current; Stomatogastric ganglion; Lobster; Central pattern generator (Harris-Warrick, R.M.) **416**, 381

Phrenic; Recurrent laryngeal; Hypoglossal; Respiratory rhythm; Spectral analysis; Pulmonary afferent; Carbon dioxide (Cohen, M.I.) **417**, 148

Oscillator

Anisomycin; Circadian rhythm; Protein synthesis; Phase response curve; Hamster (Takahashi, J.S.) **405**, 199

Osmoreceptor

Zona incerta; Subfornical organ; Medial preoptic area; Angiotensin II; Thirst; Extracellular single-unit recording (Mok, D.) **407**, 332

Osmotic stimulation

Footshock; Hypovolemia; Rat; Synergism; Vasopressin (Shibuki, K.) **410**, 140

Otic ganglion

Horseradish peroxidase; Trigeminal nerve; Salivary gland; Parasympathetic system; Guinea pig (Segade, L.A.G.) **411**, 386

Otolith

Vestibular neuron; Head tilt; Slow constant velocity rotation; Clockwise and counterclockwise direction (Chan, Y.S.) **406**, 294

Vestibulo-ocular reflex; Optokinetic reflex; Semicircular canal; Rabbit; Linear acceleration; Angular acceleration; Eye movement (Barmack, N.H.) **424**, 89

Semicircular canal; Off-vertical-axis rotation; Vestibulo-ocular reflex; Optokinetic nystagmus; Cat; Velocity store (Harris, L.R.) **437**, 393

Otolithic receptor

Cervico-ocular reflex; Cervical afferent; Eye-head orientation; Plasticity of the cervico-ocular reflex; Rabbit (Pettorossi, V.E.) **403**, 58

Ouabain

Botulinum type A toxin; Neuromuscular junction; Transmitter release; Presynaptic mechanism; Na⁺-Ca²⁺ exchange (Molgo, J.) **410**, 385

Thiamin; Thiamin deficiency; (Na⁺, K⁺)-ATPase; Cerebellum; Hypothalamus (Matsuda, T.) **437**, 375

Ouabain binding

Na⁺, K⁺-ATPase; Deafferentation; Olfactory tubercle (Swann, A.C.) **404**, 323

[³H]Ouabain binding

Na⁺, K⁺-ATPase; Pineal gland; Autoradiography (Caspers, M.L.) **409**, 335

Output

Glutamate; Mollusc; Feeding; Amino acid; Stress; Modulation (Jones, P.G.) **437**, 56

Ovarian atrophy

Hypothalamic stimulation; Hypothalamic lesion; Ovulation; Female sexual behavior (Robison, B.L.) **418**, 41

Ovariectomy

Estradiol; Melatonin; Binding; Brain (Laudon, M.) **402**, 146

Estradiol; Choline uptake; Acetylcholine synthesis; Synaptosome (O'Malley, C.A.) **403**, 389

Dopamine-sensitive adenylate cyclase activity; Estradiol; Male mouse; Female mouse; Dopamine-stimulation (Tang, L.C.) **405**, 178

Na⁺, K⁺-ATPase; Estrous cycle; Estrogen; Mediobasal hypothalamus; Preoptic-suprachiasmatic region; Norepinephrine (Rodriguez del Castillo, A.) **416**, 113

Ovulation

Hypothalamic stimulation; Hypothalamic lesion; Ovarian atrophy; Female sexual behavior (Robison, B.L.) **418**, 41

 β -N-Oxalylamino-L-alanine (BOAA)

β -N-methylamino-L-alanine (BMAA); *Lathyrus*; *Cycas*; Excitotoxin (Nunn, P.B.) **410**, 375

β -N-Methylamino-L-alanine (BMAA); 2-Amino-7-phosphonoheptanoic acid (AP7); *cis*-2,3-Piperidine dicarboxylic acid (PDA); Glutamate receptor antagonism; Organotypic tissue culture (Ross, S.M.) **425**, 120

Oxidation

Glucose; ¹⁴CO₂ production; Pyruvate (Tildon, J.T.) **403**, 127

Oxidative enzyme

hisker; Denervation; Trigeminal system; Visual system (Yip, V.S.) **406**, 157

Oxipurinol

Allopurinol; Uric acid; Cerebrospinal fluid; Xanthine oxidase (Kim, P.) **402**, 87

Oxiracetam

Piracetam; Aniracetam; Pramiracetam; Passive avoidance; Adrenalectomy; Peripheral mechanism; Nootropics (Mondadori, C.) **435**, 310

Oxymorphone

Morphine; Nalbuphine; Cerebral glucose utilization; Opioid receptor; Analgesia; Thalamus; Nucleus of the spinal tract of the trigeminal nerve (Fanelli, R.J.) **422**, 257

Oxytocin

NADPH diaphorase; Neurohypophysis; Vasopressin; Functional activity (Sagar, S.M.) **400**, 348

β -Endorphin₂₋₆; Arginine-8-vasopressin; Brain area (Laczi, F.) **403**, 155

Relaxin; Reflex milk-ejection; Cerebroventricular system; Rat; Hypothalamus (O'Byrne, K.T.) **405**, 80

Arginine-vasopressin; Noradrenaline; Ventral noradrenergic bundle; Stress; Sexual dimorphism (Carter, D.A.) **406**, 313

Cerebrospinal fluid; Paraventricular nucleus; Postejaculatory interval; Sexual behavior (Hughes, A.M.) **414**, 133

Human sensory ganglion

(Vecsernyés, M.) **414**, 153

Oxytocin neuron; Supraoptic nucleus; Oxytocin analogue; Brain slice (Yamashita, H.) **416**, 364

Adrenocorticotrophic hormone; Metyrapone (Chiodera, P.) **420**, 178

Yawning; Penile erection; Electrolytic lesion; Paraventricular nucleus; Dopamine agonist; Adrenocorticotropin (Argiolas, A.) **421**, 349

Hypophysectomy; Neurosecretory neuron; Regeneration; Median eminence; Immunohistochemistry; Vasopressin; Postnatal development (Kawamoto, K.) **422**, 106

Intracranial pressure; Vasopressin; Cerebrospinal fluid vasopressin; Blood pressure; Goat (Seckl, J.R.) **423**, 279

Cholecystokinin; Grooming behavior; Coexistence (Kaltwasser, M.-T.) **426**, 1

Area postrema; Cholecystokinin; Apomorphine; Lithium chloride; Arginine-vasopressin (Carter, D.A.) **435**, 327

Oxytocin analogue

Oxytocin; Oxytocin neuron; Supraoptic nucleus; Brain slice (Yamashita, H.) **416**, 364

Oxytocin cell

Milk ejection; Vaginal distension; Suckling stimulus; Paraventricular nucleus (Negoro, H.) **404**, 371

Oxytocin neuron

Oxytocin; Supraoptic nucleus; Oxytocin analogue; Brain slice (Yamashita, H.) **416**, 364

Oxytocin release

Neurohypophysis; Potassium channel; Naloxone; Opioid; 4-Aminopyridine; Tetraethylammonium ion (Racké, K.) **436**, 371

O-ethyl-S-(2-diisopropyl-aminoethyl)-methylphosphonothioate (VX)

Nerve agent; Soman; Convulsion; Amygdala; Brain damage; Neuropathology; Excitotoxic; Microinjection (McDonough Jr., J.H.) **435**, 123

P

P₀ mRNA

Schwann cell line; Simian virus 40 (SV40) transformation; Myelin-protein; P₀ protein; Myelin-associated glycoprotein; 2':3'-Cyclic nucleotide

3'-phosphodiesterase; Galactocerebroside; Sulfatide (Chen, G.L.) **414**, 35

P₀ protein

Schwann cell line; Simian virus 40 (SV40) transformation; Myelin-protein; P₀ mRNA; Myelin-associated glycoprotein; 2':3'-Cyclic nucleotide 3'-phosphodiesterase; Galactocerebroside; Sulfatide (Chen, G.L.) **414**, 35

Pacemaker

Circadian rhythm; Suprachiasmatic nucleus; Vasopressin; Organ culture (Earnest, D.J.) **422**, 398

Pacemaker activity

Sympathetic preganglionic neuron; Calcium current; Noradrenaline; Burst firing (Yoshimura, M.) **420**, 147

Pacemaker coupling

Circadian rhythm; *Bulla gouldiana*; *Aplysia californica*; *Bursatella leachi* *plei*; Mollusc (Roberts, M.H.) **423**, 286

Pacinian corpuscle

Inner core; Extracellular matrix; Basal lamina; Nerve regeneration; Freezing (Ide, C.) **413**, 155

Pain

Thermal inhibition; Cat; Nociceptor-driven (Kanui, T.I.) **402**, 160

Spinal cord; Met-enkephalin release (Le Bars, D.) **402**, 188

Rat habenula; Analgesia; Morphine; Naloxone (Mahieux, G.) **406**, 118

Analgesia; Pain modulation; Visceral pain; Thalamus (Girardot, M.-N.) **409**, 19

Medulla; Spinal inhibition; [D-Ala²]Methionine enkephalinamide (DALA); Vagal afferent (Randich, A.) **411**, 236

Spinal cord; Dorsolateral funiculus; Met-enkephalin release (Le Bars, D.) **412**, 190

Opioid peptide; Spinal cord; Chronic foot shock (Przewłocki, R.) **413**, 213

Afterdischarge; Nerve fiber cross-talk; Nerve injury; Nerve pathophysiology; Neuroma (Lisney, S.J.W.) **415**, 122

β-Endorphin; Dynorphin; Opioid; Opioid receptor; Arthritis; Periaqueductal grey (Millan, M.J.) **416**, 349

Neurotensin; Analgesia; Nucleus raphe magnus; Microinjection; Brainstem (Fang, F.G.) **420**, 171

N-Methyl-D-aspartate; Excitatory amino acid; Spinal cord; Analgesia (Raigorodsky, G.) **422**, 158

Analgesia; Stimulation-produced analgesia; Opioid peptide; Naloxone; Nucleus tractus solitarius; Pain-inhibition (Lewis, J.W.) **424**, 65

Tonic; Serotonin; Morphine; Microinjection; Analgesia (Inase, M.) **426**, 205

Periaqueductal gray; Opioid; Opioid receptor; Nociception; Tolerance; Conditioning (Millan, M.J.) **435**, 97

Nociceptor; C-fiber; Ephapse; Gap junction; Electrotonic; Reflex sympathetic dystrophy; Sympathetic nervous system (Meyer, R.A.) **437**, 181

Pain inhibition

Analgesia; Stimulation-produced analgesia; Opioid peptide; Naloxone; Nucleus tractus solitarius; Pain (Lewis, J.W.) **424**, 65

Opiate; Morphine; γ-Aminobutyric acid; 4,5,6,7-Tetrahydroisoxazolo-[5,4-c]pyridin 3-ol (THIP); Picrotoxin; Microinjection; Periaqueductal gray; Rat; Analgesia (Depaulis, A.) **436**, 223

Pain modulation

Analgesia; Pain; Visceral pain; Thalamus (Girardot, M.-N.) **409**, 19

Pain suppression system

Electrical stimulation; Local cerebral glucose utilization; Parafascicular nucleus; VPL nucleus; Dopaminergic nigrostriatal system (Aiko, Y.) **408**, 47

Paired helical filaments

Hirano body; Tau protein; Alzheimer's disease; Cytoskeleton; Neurofibrillary tangle; Immunocytochemistry (Galloway, P.G.) **403**, 337

Alzheimer disease; Cytoskeleton; Neurofilament; Microtubule associated protein; Immunocytochemistry (Perry, G.) **420**, 233

Paleocortex

Purified insulin receptor; Bovine peripheral nervous system; Phosphorylation; Liver; Superior cervical ganglion; Trigeminal ganglion; Structure; Function (Waldbillig, R.J.) **409**, 215

Paleostriatal complex

Synaptic structure; Passive avoidance; Hemispheric difference; *Gallus domesticus* (Stewart, M.G.) **426**, 69

Pallidal cell

Cortically projecting basal forebrain cell; Neuronal firing; Electroencephalogram; Cortical activation; Acetylcholinergic system; Anesthetized rat (Détári, L.) **437**, 1

Pallidum

Striatum; Olfactory tubercle; Mediodorsal nucleus; Horseradish peroxidase; Degeneration; Electron microscopy (Zahm, D.S.) **404**, 327

Palliovisceral lobe

Serotonin; Formaldehyde; Antibody; *Octopus vulgaris* brain; Chromatophore lobe; Peroxidase-antiperoxidase (PAP) method (Uemura, T.) **406**, 73

Para-chloroamphetamine

5,6-Dihydroxytryptamine; Serotonin; Neurotoxicity; Hippocampus; Somatosensory cortex; Striatum (Commins, D.L.) **419**, 253

Parabigeminal nucleus

Superior colliculus; Dorsal lateral geniculate nucleus; Ventral lateral geniculate nucleus; Nucleus lateralis posterior; Pretectal area (Lugo-Garcia, N.) **426**, 131

Parabrachial area

Area postrema; Noradrenaline; Serotonin; Tyrosine hydroxylase (Miceli, M.O.) **412**, 381

Parabrachial nucleus

Avian; Respiration; Vocalization; Nucleus tractus solitarius; Tracheosyringeal motor nucleus (nXIIIs) (Wild, J.M.) **407**, 191

Urinary bladder; Electrical stimulation; DL-Homocysteic acid (Lumb, B.M.) **435**, 363

Parabrachial nucleus (PBN)

Plasma renin; Plasma norepinephrine; Baroreflex (Hubbard, J.W.) **421**, 226

Paradoxical sleep

Amygdaloid stimulation; Ponto-geniculo-occipital (PGO) activity modulation (Calvo, J.M.) **403**, 22

Paradoxical sleep deprivation

Sleep; Nuchal muscle activity (Pivik, R.T.) **423**, 196

Parafascicular nucleus

Electrical stimulation; Pain suppression system; Local cerebral glucose utilization; VPL nucleus; Dopaminergic nigrostriatal system (Aiko, Y.) **408**, 47

Parafascicular region

2-Deoxyglucose uptake; Behavior (Pavrides, C.) **423**, 399

Paralysis

Dynorphin A; Spinal cord; Blood flow; Opioid; Naloxone (Long, J.B.) **436**, 374

Paramedian pontine reticular formation

Frontal eye field; Precruciate cortex; Presylvian cortex; Gyrus preoreus; Prefrontal cortex; Oculomotor system; Cat; Horseradish peroxidase (Leichnetz, G.R.) **416**, 195

Brainstem afferent; Horseradish peroxidase; Cat; Oculomotor system; Eye movement (Leichnetz, G.R.) **422**, 389

Paramedian reticular nucleus

Spinal cord; Horseradish peroxidase; Fluorescent dye; Axonal branching; Cardiovascular regulation; Intermediolateral nucleus (Elisevich, K.) **408**, 227

Parasympathetic

Neurotrophic; Ciliary; ChAT; Lung (Wallace, T.L.) **411**, 351

Parasympathetic ganglion

Trachea; Smooth muscle; Airway resistance (Mitchell, R.A.) **437**, 157

Parasympathetic neuron

Cat bladder ganglion; Intracellular recording; Postganglionic stimulation; Slow synaptic hyperpolarization (Kumamoto, E.) **435**, 403

Parasympathetic preganglionic neuron

Met-Enk-Arg-Gly-Leu; Immunohistochemistry; Rat (Shimosegawa, T.) **406**, 341

Parasympathetic system

Horseradish peroxidase; Otic ganglion; Trigeminal nerve; Salivary gland; Guinea pig (Segade, L.A.G.) **411**, 386

Parathyroid hormone

Calcitonin; Calcitonin gene-related peptide; Calcium (Goltzman, D.) **416**, 1

Paraventricular nucleus

Cholecystokinin; Forebrain; Hamster; Hypothalamus; Suprachiasmatic nucleus (Miceli, M.O.) **402**, 318

Corticotropin releasing factor; Glucocorticoid; Neurosecretion; Steroid feedback; Vasopressin (Sawchenko, P.E.) **403**, 213

Capillary density; Magnocellular neuron; Parvocellular neuron; Supraoptic nucleus; Pituitary neural lobe; Brattleboro rat (Sposito, N.M.) **403**, 375

Oxytocin cell; Milk ejection; Vaginal distension; Suckling stimulus (Negoro, H.) **404**, 371

Angiotensin II; Circumventricular organ; AV3V area; Quantitative autoradiography; Neuropeptide binding site (Plunkett, L.M.) **405**, 205

Monosodium glutamate; Bipiperidyl mustard; Cholecystokinin; Ventromedial hypothalamus; Insulin; Hyperphagia; Feeding; Obesity (Scallet, A.C.) **407**, 390

Substantia nigra, pars compacta; Axon branching; Pituitary stalk; Antidromic; Latency jump (Klemfuss, H.) **409**, 197

Tuberoinfundibular neuron; Baroreceptor; A₁-catecholaminergic area; Glutamate microinjection (Kannan, H.) **409**, 358

Corticotropin releasing factor; Gastric acid; Ventromedial nucleus; Lateral hypothalamus; Caudate-putamen (Gunion, M.W.) **411**, 156

Cerebrospinal fluid; Oxytocin; Postejaculatory interval; Sexual behavior (Hughes, A.M.) **414**, 133

Apomorphine; Dopamine agonist; Yawning; Penile erection (Melis, M.R.) **415**, 98

Neuropeptide Y; Hypothalamus;

Adrenocorticotrophic hormone (ACTH); Corticosterone; Desamido-NPY (Wahlestedt, C.) **417**, 33

Yawning; Penile erection; Electrolytic lesion; Dopamine agonist; Oxytocin; Adrenocorticotropin (Argiolas, A.) **421**, 349

Immunoglobulin; Neuroendocrine cell; Supraoptic nucleus; Lysosome; Immune-nervous system interaction (Meeker, M.L.) **423**, 45

Thermosensitivity; Slice preparation; Phasic firing neuron; Vasopressin neuron; Body water balance (Inenaga, K.) **424**, 126

Growth hormone-releasing factor (GRF); Immunohistochemistry; Arcuate nucleus; Monoclonal antibody; Rat (Bruhn, T.O.) **424**, 290

Adrenalectomy; Corticotropin-releasing factor; Hypothalamus; Vasopressin (Sawchenko, P.E.) **437**, 253

Pargyline

p-Tyramine; *M*-Tyramine; *p*-Tyrosine; Dopamine; 3,4-Dihydroxyphenylacetic acid; Homovanillic acid; Mesolimbic system (Sardar, A.) **412**, 370

Pargyline, MPTP analogue

N-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP); Third cerebral ventricle; Sexual behavior; Male rat (Sirinathsinghji, D.J.S.) **407**, 364

Parietal cortex

β -Adrenergic receptor; Supersensitivity; Norepinephrine; Morphine dependence; Withdrawal; Receptor binding; Microiontophoresis (Moises, H.C.) **400**, 110

Catecholamine; Norepinephrine; Isoproterenol; Prostaglandin; Leukotriene (Busija, D.W.) **403**, 243

Kainic acid; Behavioral change; Prostanoid formation; Rat hippocampus; Amygdala/pyriform cortex (Baran, H.) **404**, 107

Cortex; Somatosensory cortex; Ablation; Temperature; Discrimination; Lemniscal; Extralemniscal (Porter, L.H.) **412**, 54

Parietal eye

Lizard; Melatonin; Pineal; Plasma; Temperature (Firth, B.T.) **404**, 313

Parkinson disease

Weaver mutant mouse; Nigral transplant; Dopamine; Striatum; Rotational behavior; Functional recovery (Low, W.C.) **435**, 315

Parkinson's disease

Aging; Neurotoxicity; Dopamine; Substantia nigra; Cell degeneration (Ricaurte, G.A.) **403**, 43

Opioid receptor; Selective ligand;

δ -Enkephalin analogue; Discriminative binding property; Human brain (Delay-Goyet, P.) **414**, 8

1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP); African Green monkey; Ventral tegmental area; Mesolimbic; Nigrostriatal; Cerebrospinal fluid; Dopamine; Homovanillic acid; 3-Methoxy-4-hydroxyphenylglycol (MHPG) (Elsworth, J.D.) **415**, 293

Parkinsonism

Mesencephalon; Dopamine depletion; N-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP); Monkey (Schneider, J.S.) **411**, 144

1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP); 1-Methyl-4-phenylpyridinium ion (MPP⁺); Dopamine; 3,4-Dihydroxyphenylacetic acid (DOPAC); Push-pull perfusion; Caudate nucleus (Chang, G.D.) **424**, 49

Paroxysmal depolarization shift

Neocortical pyramidal cell; Ca-antagonist, D890 (Deisz, R.A.) **422**, 63

Paroxysmal fast wave

Kindling; Afterdischarge; Hippocampus; Entorhinal cortex; Cholinergic input; Medial septum; Scopolamine (Leung, L.-W.S.) **419**, 173

Paroxysmal mutant

Audiogenic seizure; Auditory brainstem response (ABR); Auditory function (Beck, M.M.) **406**, 93

Partial epilepsy

Premotor cortex; Striatum; Substantia nigra; γ -Aminobutyric acid (GABA); Muscimol (Ono, K.) **405**, 183

Premotor cortex; Striatum; γ -Aminobutyric acid (GABA); Glutamate; Acetylcholine (Ono, K.) **435**, 84

Partition coefficient

Olfaction; Regeneration; Receptor (Hornung, D.E.) **413**, 147

Parturition

Circadian rhythm; Suprachiasmatic nucleus; Fetus (Reppert, S.M.) **403**, 398

Parvalbumin

Ca²⁺ binding protein; Fast spiking neuron; Cholecystokinin; Somatostatin; γ -Aminobutyric acidergic system; Local circuit neuron; Cerebral cortex (Kosaka, T.) **409**, 403

γ -Aminobutyric acid (GABA); Peptide; Coexistence; Immunohistochemistry; Olfactory bulb (Kosaka, T.) **411**, 373

Fast spiking cell; Calcium-binding protein; γ -Aminobutyric acid (GABA)ergic neuron; Non-pyramidal

cell; Hippocampus; Intracellular injection of Lucifer yellow; Immunohistochemistry (Kawaguchi, Y.) **416**, 369

Immunocytochemistry; Cerebral cortex; Postmortem brain; Alzheimer's disease; Senile dementia (Arai, H.) **418**, 164

γ -Aminobutyric acid (GABA); Glutamic acid decarboxylase (GAD); Ca²⁺ binding protein; Local circuit neuron; Hippocampus; Dentate gyrus; Immunohistochemistry (Kosaka, T.) **419**, 119

Parvocellular neuron

Capillary density; Paraventricular nucleus; Magnocellular neuron; Supraoptic nucleus; Pituitary neural lobe; Brattleboro rat (Sposito, N.M.) **403**, 375

Passive avoidance

Cholinergic neurotransmission; Muscarinic acetylcholine receptor; Irreversible muscarinic acetylcholine antagonist; Propylbenzylcholine mustard (PrBCM); Memory deficit; Learning process; Alzheimer's disease (Fukuchi, I.) **400**, 53

Synaptic structure; Paleostriatal complex; Hemispheric difference; *Gallus domesticus* (Stewart, M.G.) **426**, 69

Oxiracetam; Piracetam; Aniracetam; Pramiracetam; Adrenalectomy; Peripheral mechanism; Nootropics (Mondadori, C.) **435**, 310

Passive avoidance behavior

Anti-vasopressin serum; Noradrenaline utilization; Hippocampus, dorsal; Hippocampus, ventral; Septum, dorsolateral; Caudate nucleus (Veldhuis, H.D.) **425**, 167

Passive avoidance task

Basal forebrain; Medial septal nucleus; Cholinergic system; Morris water task; Radial maze task; Learning and memory; Animal model for dementia (Miyamoto, M.) **419**, 19

Patch clamp

γ -Aminobutyric acid (GABA); Lactotroph; Prolactin; Chloride channel; GABA_A receptor (Inenaga, K.) **405**, 159

Patch clamp recording

Cultured hippocampal pyramidal cell; γ -Aminobutyric acid; Single chloride channel; Single channel conductance; Amino acid (Allen, C.N.) **410**, 159

Patch clamping

Potassium channel; Inactivation; Voltage-dependent channel; Non-inactivating current; *Helix* neuron (Ram, J.L.) **405**, 16

Patch-clamp

Cerebellar neuron; Glutamate; Aspartate (Cull-Candy, S.G.) **402**, 182

I_(K,Ca); Leech (Yang, J.) **419**, 324

Pathogenesis

Alzheimer's disease; Somatostatin; Cholinergic system; Post-mortem tissue; Cerebrospinal fluid (CSF) (Reinikainen, K.J.) **402**, 103

Pathway selection

Axonal regeneration; *Hirudo medicinalis*; Surface glycoprotein (Peinado, A.) **410**, 330

Pattern

Human; Load perturbation; Reflex; Synergy (McIlroy, W.E.) **407**, 317

Pattern discrimination

Visual deprivation; Optic lobe; Fly; Behavior; Compound eye (Mimura, K.) **437**, 97

Paw use

Dopamine; 6-Hydroxydopamine; Transplant; Limb use; Rotation (Dunnett, S.B.) **415**, 63

PC12 cell line

Voltage-dependent calcium channel; Calmodulin; Protein kinase C; Calcium channel antagonist; ⁴⁵Ca²⁺ uptake (Greenberg, D.A.) **404**, 401

Calcium channel; ⁴⁵Ca²⁺ uptake; Ethanol; Calcium channel antagonist; BAY K 8644 (Greenberg, D.A.) **410**, 143

Pedal ganglion

Peptide; *Mytilus*; Anterior byssus retractor muscle (ABRM); Catch tension; Relaxation; Inhibition (Hirata, T.) **422**, 374

Pedunculopontine nucleus

Locomotor activity; Dopamine; Nucleus accumbens; Ventral pallidum; Dorsomedial nucleus of the thalamus; Medial prefrontal cortex; Apomorphine; Picrotoxin; Behavior (Swerdlow, N.R.) **412**, 233

Substantia nigra; Decortication (Scarnati, E.) **423**, 116

Pekin duck

Angiotensin II; Receptor autoradiography; Hypothalamus; Subfornical organ; Salt gland; Receptor up-regulation (Gerstberger, R.) **400**, 165

Penicillin

Epilepsy; Hippocampus; Hippocampal slice; Slow potential (Schneiderman, J.H.) **403**, 162

Cortical neuron; Spike and wave; Generalized epilepsy (Giaretta, D.) **405**, 68

Penile erection

Apomorphine; Dopamine agonist; Yawning; Paraventricular nucleus (Melis, M.R.) **415**, 98

Yawning; Electrolytic lesion; Paraventricular nucleus; Dopamine agonist; Oxytocin; Adrenocorticotrophic

(Argiolas, A.) **421**, 349

Penile reflex

Motoneuron; Testosterone; Synaptic plasticity (Leedy, M.G.) **424**, 386

Pentobarbital

Anesthesia; Auditory brainstem response (ABR); Brainstem auditory evoked potential (BAEP); Mouse (Church, M.W.) **403**, 72

Spinal cord; Nociception; Naloxone; Bicuculline; Picrotoxin; Intrathecal; GABAergic transmission (Stein, C.) **407**, 307

Brain injury; Brain ischemia; Anesthetic; Ketamine; Survival rate (Shimoji, K.) **408**, 385

Cerebral artery; Femoral artery; Ca^{2+} movement (Sanchez-Ferrer, C.F.) **411**, 304

Tail flick; Intrathecal; Morphine; Naltrexone; Transcutaneous electrical nerve stimulation (TENS); Electroacupuncture (Peets, J.M.) **416**, 301

Periaqueductal gray; Stimulation-produced analgesia; Tolerance; Analgesia; Rat (Morgan, M.M.) **425**, 356

Pentylenetetrazole

Convulsant; 4-Aminopyridine; Transient outward current; Nodose ganglion (Oyama, Y.) **409**, 243

Ion current; *Aplysia* neuron (Hartung, K.) **419**, 55

Peptidase inhibitor

Enkephalin; Dorsal horn; Analgesia; Kelatorphan (Dickenson, A.H.) **408**, 185

Peptide

Cholera toxin; Retrograde tracer; Nucleus raphe pallidus; Hypothalamus; Cat (Luppi, P.-H.) **402**, 339

Coexistence; Immunohistochemistry; Hypothalamus; Medullary raphe nucleus; Spinal cord (Holets, V.R.) **408**, 141

γ -Aminobutyric acid (GABA); Parvalbumin; Coexistence; Immunohistochemistry; Olfactory bulb (Kosaka, T.) **411**, 373

Somatostatin; Sprouting; Neurite; Regeneration; Plasticity; Mollusc (Bullock, A.G.M.) **412**, 6

Corticotropin-releasing factor; Human cerebellum; Inferior olive (Powers, R.E.) **415**, 347

Enkephalin; Evolution; Frog; Hypothalamus; Immunocytochemistry; Optic tectum; Toad (Merchenthaler, I.) **416**, 219

Co-existence; Visual cortex; Immunohistochemistry; Rat (Papadopoulos, G.C.) **420**, 95

Retina; Visual cortex; Lateral geniculate nucleus; Pulvinar; Immunohistochemistry; Cat (Bliss Tieman, S.) **420**, 188

Pedal ganglion; *Mytilus*; Anterior byssus retractor muscle (ABRM); Catch tension; Relaxation; Inhibition (Hirata, T.) **422**, 374

Peptide histidine isoleucine amide

Brain-gut peptide; Secretin; Vasoactive intestinal peptide; Preoptic area; Luteinizing hormone; Prolactin (Kimura, F.) **410**, 315

Peptide transport

Brain capillary (Duffy, K.R.) **420**, 32

Peptide-histidine-isoleucine

(PHI)-containing neuron
Ontogenesis; Suprachiasmatic nucleus; Hypothalamus (Ishikawa, K.) **407**, 144

Peptide/amine interaction

Neurohypophyseal peptide; Noradrenaline; Nucleus tractus solitarius; Blood pressure; Brattleboro rat (Vallejo, M.) **422**, 295

Peptidoglycan

Muramyl peptide; Mass spectrometry; Sleep; Rabbit; Fever (Krueger, J.M.) **403**, 249

Perception (visual)

Cortex (visual); EEG (spatial pattern); Monkey (rhesus); Spatial analysis (EEG); Visual cortex (EEG) (Freeman, W.J.) **422**, 267

Percutaneous stimulation

Human corticospinal tract; Individual motor unit response; Corticospinal tract jitter; Spinal monosynaptic transmission (Zidar, J.) **422**, 196

Perforant path

Dentate gyrus; Long-term potentiation; Excitatory postsynaptic potential (EPSP); Population spike; Feed-forward inhibition (Kairiss, E.W.) **401**, 87

Long-term depression; Long-term potentiation; Dentate area; Tetanization frequency; Spreading depression (Bramham, C.R.) **405**, 100

Medial septum; Hippocampus; Commissure; Granule cell; Interneuron; Disinhibition (Bilkey, D.K.) **405**, 320

Hippocampus; Area dentata; Active avoidance; Post-tetanic long-term potentiation (LTP); Post-conditioning long-term potentiation (LTP); Glycoprotein; Fucose; Memory formation (Pohle, W.) **410**, 245

Epilepsy; Gerbil; Hippocampus; Lesion; Fornix (Ribak, C.E.) **418**, 146

Kindling; Long-term potentiation; Dentate gyrus; Epilepsy (Sutula, T.) **420**, 109

Hippocampus; Opioid peptide; Amino

acid; Wet dog shake; Enkephalin; Dynorphin; γ -Aminobutyric acid (GABA) (Mitchell, C.L.) **435**, 343

Synaptic plasticity; Dentate gyrus; H-7; Melitin; Polymyxin B; Protein phosphorylation (Lovinger, D.M.) **436**, 177

'Perforated' synapse

Postsynaptic density shape (Geinisman, Y.) **422**, 352

Postsynaptic density shape (Geinisman, Y.) **423**, 179

Periaqueductal gray

Stimulation; Analgesia; β -Endorphin; Opioid; Prolactin; Stress (Millan, M.J.) **407**, 199

Vasoconstriction; Sympathetic nervous system; Pituitary; Brainstem; Cardiovascular signal; Dorsal rostral pons (Ward, D.G.) **407**, 369

Nucleus raphe magnus; Lateral reticular nucleus; Spontaneous activity; Noxious-evoked activity; Excitation; Inhibition (Sotgiu, M.L.) **414**, 219

β -Endorphin; Dynorphin; Opioid; Opioid receptor; Pain; Arthritis (Millan, M.J.) **416**, 349

Nitrous oxide; β -Endorphin; α -Melanocyte stimulating hormone; Adrenocorticotrophic hormone; Medial basal hypothalamus (Zuniga, J.R.) **420**, 57

Aversion; Brain stimulation; Local neuronal circuitry; Mesencephalon; Rat; Spike train; Stochastic process; Unit activity (Sandner, G.) **421**, 150

Opioid; Feeding; Ventral tegmental area; Lateral hypothalamus (Jenck, F.) **423**, 39

Analgesia; Aversion; Diazepam; Electrical stimulation; Tail-flick (Morgan, M.M.) **423**, 395

Morphine analgesia; Opiate tolerance (Siuciak, J.A.) **424**, 311

Stimulation-produced analgesia; Tolerance; Analgesia; Pentobarbital; Rat (Morgan, M.M.) **425**, 356

Opioid; Opioid receptor; Pain; Nociception; Tolerance; Conditioning (Millan, M.J.) **435**, 97

Opiate; Morphine; γ -Aminobutyric acid; 4,5,6,7-Tetrahydroisoxazolo-[5,4-c]pyridin 3-ol (THIP); Picrotoxin; Microinjection; Rat; Analgesia; Pain-inhibition (Depaulis, A.) **436**, 223

Periaqueductal gray matter

Enkephalin; Cholecystokinin; Neuropeptide; Opioid; Nociception; Neurotransmitter coexistence (Gall, C.) **403**, 403

Periaqueductal gray region

Tooth pulp; Jaw-opening reflex; Raphe nucleus (Chung, R.Y.) **403**, 172

Perifusion

Melanocyte-stimulating hormone;
Hypothalamus; Radioimmunoassay;
Ion (Jégou, S.) **413**, 259

Melanocyte-stimulating hormone;
 β -Endorphin;
Proopiomelanocortin-containing
neuron; Dopaminergic agonist;
Dopaminergic antagonist;
Hypothalamus; High-performance
liquid chromatography (Delbende, C.)
423, 203

Periglomerular cell

Olfactory bulb; Lateral inhibition;
Olfactory processing; Mitral cell;
Olfactory bulb glomerulus
(Wilson, D.A.) **417**, 175

Perikaryal accumulation

Hippocampal zinc; Mossy fiber;
Depletion; Colchicine; Rat brain
(Szerdahelyi, P.) **422**, 287

Period length

Aging; Sleep–wakefulness; Circadian
rhythm; Free-running; Rat (Van
Gool, W.A.) **413**, 384

Periodicity analysis

Auditory cortex; Amplitude
modulation; Time coding; Bird
(Hose, B.) **422**, 367

Periodontal mechanosensitive neuron

Somatosensory cortex; Sensory
adaptation; Directional selectivity;
Interaction of afferent inputs
(Taira, K.) **409**, 52

Periolivary nucleus

Abducens nucleus; Choline
acetyltransferase; Leucine enkephalin;
Olivocochlear bundle; Superior olivary
complex; Vestibular efferent neuron
(Carpenter, M.B.) **408**, 275

Peripheral benzodiazepine binding site

[³H]PK 11195; Ontogenetic
development; Brain; Heart; Lung
(Fares, F.) **408**, 381

Progesterone; Central benzodiazepine
receptor; [³H]Flunitrazepam; [³H]PK
11195 (Gavish, M.) **409**, 386

Peripheral mechanism

Oxiracetam; Piracetam; Aniracetam;
Pramiracetam; Passive avoidance;
Adrenalectomy; Nootropics
(Mondadori, C.) **435**, 310

Peripheral nerve

Hirano body; 200-KDa Neurofilament;
Long-term CNS transplant;
Cytoskeletal abnormality
(Doering, L.C.) **401**, 178

Helium–neon laser light; Man
(Wu, W.-H.) **401**, 407

Blood–nerve barrier; Calcium;
Regulation; Homeostasis; Blood vessel;
Neuropathy; Hypercalcemia;
Hypocalcemia; Endoneurium;

Magnesium; Ion (Rechthand, E.)
406, 185

Carbonic anhydrase; Acetazolamide
(Oswald, T.) **406**, 379

Ischemia; Regional glucose utilization;
2-Deoxyglucose (Sladky, J.T.) **414**, 323

Nerve growth factor; Axonal
regeneration; Neurite growth
(Sandrock Jr., A.W.) **425**, 360

Acetylcholine; Conduction; Potassium
channel; Neurotransmitter; Cyclic
nucleotide; Cyclic guanosine
monophosphate (Kendig, J.J.) **435**, 24

Peripheral nerve disease

Guillain-Barré syndrome;
Polyradiculoneuritis; Schwann cell;
Myelin sheath; Tissue culture
(Birchem, R.) **421**, 173

Peripheral nerve implant

Ganglion cell survival; Eye lesion
(Turner, J.E.) **419**, 46

Peripheral nerve regeneration

150 kDa neurofilament protein;
Immunocytochemistry; α -MSH/NF150
cross-reacting antibody; Neurotrophic
melanocortin (Verhaagen, J.) **404**, 142

Autologous transplant; Axon number
(Jenq, C.-B.) **406**, 52

Peripheral nerve transplant

Regeneration; Retinal ganglion cell
axon; Hamster (Cho, E.Y.P.) **419**, 369

Peripheral nervous system

Surface glycoprotein; Axon
fasciculation; Leech (Peinado, A.)
410, 335

Axonal transport; Doxorubicin;
Anthracycline antibiotic; Dorsal root
ganglion; Motoneuron (Borges, L.F.)
426, 367

Peripheral sympathetic nervous system

Medial septal lesion; Superior cervical
ganglion; Body weight; Feeding;
Drinking (Harrell, L.E.) **408**, 131

Peripheral sympathetic system

Sympathetic ganglion; Neuropeptide
receptor; Renin angiotensin system;
Receptor autoradiography
(Castrén, E.) **422**, 347

Peripheral type benzodiazepine binding site

Excitotoxin; Choline acetyltransferase;
Glutamate decarboxylase; Rat striatum
(Benavides, J.) **421**, 167

Peripheral–central visual field

Attention; Event-related brain
potential; Hemispheric specialization;
Motion perception (Neville, H.J.)
405, 253

Attention; Event-related brain
potential; Deafness; Motion
perception; Hemispheric specialization;
Development (Neville, H.J.) **405**, 268

Attention; Event-related brain
potential; Deafness; Motion
perception; Hemispheric specialization;
Development; American sign language
(Neville, H.J.) **405**, 284

Perivascular microapplication

Hydrogen ion; Potassium ion;
Bradykinin; Adenosine; DC potential
(Wahl, M.) **411**, 72

Permeability

Brain endothelial cell; Monolayer
culture; Electrical resistance; Aortic
endothelial culture; Epididymal
endothelial culture (Rutten, M.J.)
425, 301

Permeable tube

Axonal regeneration; Nerve transection
(Jenq, C.-B.) **408**, 239

Peromyscus leucopus

Ultraviolet; Pineal melatonin; Visible
light; Wavelength (Benshoff, H.M.)
420, 397

Peromyscus maniculatus

Activity; Stress-induced analgesia;
Immobilization; Opioid analgesia;
Naloxone; ICI 154, 129; Deer mice;
Sex; Genetic; Island–Mainland
population (Kavaliers, M.) **425**, 49

Peroxidase antiperoxidase method

Calcineurin; Hippocampus;
Immunohistochemistry; Zinc;
Phosphatase; Calmodulin (Matsui, H.)
402, 193

Peroxidase–antiperoxidase (PAP) method

Serotonin; Formaldehyde; Antibody;
Octopus vulgaris brain; Chromatophore
lobe; Palliovisceral lobe (Uemura, T.)
406, 73

Persistent estrus

Brain graft; Hypogonadal mouse;
Preoptic area; Luteinizing hormone;
Reflex ovulation (Gibson, M.J.)
424, 133

Pertussis toxin

Dorsal horn response; Primary afferent
network; Spinal cord culture; Opioid
network; Adenylate cyclase/cyclic AMP
system (Crain, S.M.) **400**, 185

Startle; α_2 -adrenergic agonist;
Cyclic adenosine monophosphate;
2, -(2,6-Diethylphenylamino)-2-
imidazoline hydrochloride
(Kehne, J.H.) **406**, 87

Serotonin; Hippocampus; G protein;
Population spike; Adenylate cyclase
(Clarke, W.P.) **410**, 357

Dopamine autoreceptor; Adenylate
cyclase; Substantia nigra (Innis, R.B.)
411, 139

α_2 -Adrenergic receptor; Cyclic
adenosine monophosphate; Cortex;
Striatum; Neuron; Primary culture
(Weiss, S.) **414**, 390

Glutamate receptor; Synapse; GTP binding protein; Islet activating protein (IAP); Joro spider toxin (JSTX) (Miwa, A.) **416**, 162

Adenosine diphosphate ribosylation; Opioid; G-protein; Adenylate cyclase (Abood, M.E.) **417**, 70

Adenosine; Acetylcholine; Adenosine 5'-N-ethylcarboxamide; Cerebral cortex; Rat (O'Regan, M.H.) **436**, 380

G protein; Guanosine 5'-triphosphate (GTP); Guanosine-5'-O-(3-thiotriphosphate) (GTP γ S); Hyperpolarization; Locus coeruleus; Morphine (Wang, Y.-Y.) **436**, 396

Petrosal ganglion

Sensory neuron; Glossopharyngeal nerve; Membrane property (Morales, A.) **401**, 340

Ph

Gap junction; Electrotonic synapse; Diurnal rhythm (Moreno, A.P.) **400**, 181

Nervous system injury; pO₂; Brain cell culture; Neuron; Astrocyte; Differentiation; Neurofilament protein; Glial fibrillary acidic protein (Bologna, L.) **411**, 282

Ph measurement

Brain slice; Synaptic transmission (Krishtal, O.A.) **436**, 352

Phaclofen

Phaclofen; Guinea pig ileum; Cat spinal cord (Kerr, D.I.B.) **405**, 150

Pharmacogenetics

Mouse; Protein polymorphism; LTW-4; Two-dimensional electrophoresis; Ethanol acceptance; Inbred strain; Recombinant inbred strain; Alcohol (Goldman, D.) **420**, 220

Pharmacokinetics

Unilateral cerebral drug administration; Haloperidol; Amphetamine; Interhemispheric relationship (Hyde, J.F.) **421**, 117

Pharmacology

Axonal transport; Regeneration (Edström, A.) **401**, 34

Cholinergic input; Posterior cingulate cortex; Basal forebrain neuron; Septal nucleus; Theta rhythm; EEG-spike (Borst, J.G.G.) **407**, 81

Movement detection; Behavior; Electrophysiology; Picrotoxinin; γ -Aminobutyric acid (GABA); Fly; *Drosophila* (Bülthoff, H.) **407**, 152

Embolism; Cerebral ischemia; Microsphere; Stroke model; Cyproheptadine (Zivin, J.A.) **435**, 305

Phase response curve

Anisomycin; Circadian rhythm; Protein synthesis; Oscillator; Hamster (Takahashi, J.S.) **405**, 199

Phase shifting

Hippocampus; Brain slice; Carbachol;

0-Rhythm (Konopacki, J.) **417**, 399

Phaseolus vulgaris leucoagglutinin
Magnocellular basal nucleus; Cortical projection; Horizontal diagonal band; Anterograde tracing (Luiten, P.G.M.) **413**, 229

Descending pathway; Diagonal band of Broca; Substantia innominata (Tomimoto, H.) **425**, 248

Phaseolus vulgaris leucoagglutinin (PHA-L)

Neuroanatomical tracing; Double-label immunocytochemistry; Histamine; Histidine decarboxylase; Prefrontal cortex; Hypothalamus; Limbic system (Wouterlood, F.G.) **406**, 330

Posteroventral cochlear nucleus; Lateral superior olive; Auditory system; Guinea pig (Thompson, A.M.) **421**, 382

Locus coeruleus; Spinal cord; Substantia gelatinosa; Noradrenergic axon (Fritschy, J.-M.) **437**, 176

Phasic firing neuron

Paraventricular nucleus; Thermosensitivity; Slice preparation; Vasopressin neuron; Body water balance (Inenaga, K.) **424**, 126

Phe-Met-Arg-Phe-NH₂ (FMRFamide)

Analgesia; Calcium channel antagonist; Morphine; Stress; Stress-induced analgesia; Immobilization; Naloxone; Opioid analgesia (Kavaliers, M.) **415**, 380

Phencyclidine

Atropine; Electrocorticogram; Hippocampal theta wave; Psychotomimetic opioid; Serotonin; Sigma receptor (Vanderwolf, C.H.) **414**, 109

Fetal brain; Embryo (Ahmad, G.) **415**, 194

Phencyclidine receptor; Sigma receptor; N-Methyl-D-aspartate; Neurotransmitter release (Zukin, S.R.) **416**, 84

Deoxyglucose; Glucose utilization; Limbic system; σ -Receptor; Brain imaging (Weissman, A.D.) **435**, 29

Phencyclidine (PCP)

Spinal cord neuron; Cell culture; Tetraethylammonium (TEA); 4-Aminopyridine (4-AP); Potassium channel; Voltage clamp; Action potential (Aguayo, L.G.) **436**, 9

Phencyclidine (PCP)/ σ -receptor

MK-801; Haloperidol-sensitive non-PCP/ σ -binding site; Anticonvulsant; [³H]TCP binding; (+)-[³H]SKF 10,047 competition; N-Methyl-D-aspartate (NMDA)-stimulated [³H]norepinephrine release (Sircar, R.) **435**, 235

Phencyclidine receptor

Phencyclidine; Sigma receptor; N-Methyl-D-aspartate; Neurotransmitter release (Zukin, S.R.) **416**, 84

Phenobarbital

Minor tranquilizer; Meprobamate; [1-¹⁴C]2-Deoxyglucose; Local cerebral glucose utilization (Ableitner, A.) **403**, 82

Phenoxybenzamine

Growth hormone; Central somatostatin; Picrotoxin; Naloxone (Murakami, Y.) **407**, 405

Locus coeruleus; Medial preoptic area stimulation; Norepinephrine; Luteinizing hormone-releasing hormone; Luteinizing hormone; α -Methyl-p-tyrosine; Propranolol (Gitler, M.S.) **437**, 332

Phentolamine

Clonidine; Isoproterenol; Apomorphine; Thyrotropin secretion; Yohimbine; Propranolol; Sulpiride (Jaffer, A.) **404**, 267

REM sleep; α -Adrenoceptor antagonist; Body temperature (Kent, S.) **415**, 169

Phenylalanine hydroxylase

Monoclonal antibody; Tyrosine hydroxylase; Tryptophan hydroxylase; Immunocytochemistry; Brain (Haan, E.A.) **426**, 19

Phenylephrine

Estrogen receptor; Norepinephrine; Noradrenergic system; Yohimbine; Clonidine; Catecholamine; Hypothalamus; α_2 -Noradrenergic receptor (Blaustein, J.D.) **404**, 51

Phenylethanolamine

N-methyltransferase

Isozyme; Characterization; Adrenal; Bovine (Wong, D.L.) **410**, 32

Phenylethanolamine-N-methyltransferase (PNMT) inhibitor

Adrenaline release; Noradrenaline release; Intracerebral dialysis; Idazoxan; Monoamine oxidase (MAO) inhibitor; N-(2-Chloroethyl)-N-ethyl-2-bromobenzylamine (DSP₄) (Routledge, C.) **426**, 103

Phenylisopropyladenosine

Adenosine; Hippocampus; Theophylline; Electrophysiology (Brodie, M.S.) **415**, 323

Phorbol diester

12-O-tetradecanoyl-phorbol-13-acetate

Protein kinase C; Astrocyte; Arachidonic acid metabolism; Prostaglandin E; Immune response; Inflammation (Hartung, H.-P.) **417**, 347

Phorbol ester

Protein kinase C; Transmitter release; Hippocampus; Glutamate; Calcium (Malenka, R.C.) **403**, 198

Astrocyte; Prostanoid; Protein kinase C; Calcium; Culture (Jeremy, J.) **419**, 364

Brain glucose uptake regulation; Protein kinase C; Brain culture (Clarke, D.) **421**, 358

Kinase C; Intracellular response; Neocortex; Chronic cat (Baranyi, A.) **424**, 396

4 α -Phorbol 12,13-didecanoate

[³H]Noradrenaline release; [³H]Dopamine release; Amygdala slice in vitro; 4 β -Phorbol 12,13-dibutyrate; Polymyxin B (Versteeg, D.H.G.) **416**, 343

4 β -Phorbol 12,13-dibutyrate

[³H]Noradrenaline release; [³H]Dopamine release; Amygdala slice in vitro; 4 α -Phorbol 12,13-didecanoate; Polymyxin B (Versteeg, D.H.G.) **416**, 343

Phosphatase

Calcineurin; Hippocampus; Immunohistochemistry; Zinc; Calmodulin; Peroxidase antiperoxidase method (Matsui, H.) **402**, 193

Phosphatidylcholine

Phospholipid methylation; In vivo; S-adenosylmethionine; Subcellular fraction (Lakher, M.) **419**, 131

Phosphatidylinositol

Seizure; Free fatty acid; Triacylglycerol; Diacylglycerol; Rat (Yoshida, S.) **412**, 114

Phosphodiesterase inhibitor

Cyclic AMP; Cyclic GMP; Muscarinic response; Acetylcholine; Dopamine (Tsunoo, A.) **407**, 55

Phosphoethanolamine

Ethanolamine; Alzheimer's disease; Huntington's disease; Cerebral cortex; Striatum (Ellison, D.W.) **417**, 389

Phosphoinositide

Acetylcholine receptor; Receptor metabolism; Lithium; Skeletal muscle; Cation; Calcium (Pestronk, A.) **412**, 302

Myelin; Muscarinic receptor; Myelin phosphoinositide (Larocca, J.N.) **436**, 357

Phosphoinositide hydrolysis

Serotonin receptor; Choroid plexus; Serotonergic denervation; Cerebrospinal fluid; 5-HT-1c receptor (Conn, P.J.) **400**, 396

Phospholipid methylation

In vivo; Phosphatidylcholine; S-adenosylmethionine; Subcellular fraction (Lakher, M.) **419**, 131

Phosphorylated neurofilament

Non-phosphorylated neurofilament;

Purkinje cell basket; Hypothyroidism (Bignami, A.) **409**, 143

Phosphorylation

Lithium; 64-KDa protein; Calmodulin; Protein kinase (Klein, E.) **407**, 312

Purified insulin receptor; Bovine peripheral nervous system; Paleocortex; Liver; Superior cervical ganglion; Trigeminal ganglion; Structure; Function (Waldbillig, R.J.) **409**, 215

Rat brain cortex; Plasma membrane; Two-dimensional electrophoresis; Abundant protein (Steisslinger, H.W.) **415**, 375

Insulin receptor; Norepinephrine uptake; Neuron; α -Subunit; β -Subunit (Masters, B.A.) **417**, 247

Neurofilament; Retina; Optic nerve; Myelination (Sloan, K.E.) **437**, 365

Photoaffinity labeling

Amin; Cultured astrocyte; Glial cell; Potassium channel; Receptor subunit (Seagar, M.J.) **411**, 226

Photoaffinity labeling, β -Adrenergic receptor

Synaptic membrane; Cerebral cortex; Cerebellum; Glycoprotein; Radioligand binding (Lautens, L.L.) **426**, 401

Photoperiod

Seasonal cycle; Brain size; Body mass; Hormone; Sex difference (Dark, J.) **409**, 302

Photoreceptor

Inositol 1,4,5-trisphosphate; Calcium; Aequorin; Discrete burst; Microinjection (Corson, D.W.) **423**, 343

Age; Retina; Stress; Hormone (O'Steen, W.K.) **426**, 37

Muller cell; Opsin; Monoclonal antibody; Immunocytochemistry; Electron microscopy; Cell interaction (Akagawa, K.) **437**, 298

Phrenic

Recurrent laryngeal; Hypoglossal; Respiratory rhythm; Oscillation; Spectral analysis; Pulmonary afferent; Carbon dioxide (Cohen, M.I.) **417**, 148

Phrenic afferent

Brainstem; Intercostal-to-phrenic reflex; Respiration; Spinal cord (Speck, D.F.) **414**, 169

Phrenic motor nucleus

Serotonin; Raphe obscurus; Raphe pallidus; Nucleus ambiguus (Holtman Jr., J.R.) **417**, 12

Phrenic nerve

Sympathetic preganglionic neuron; Aortic nerve; Respiration; Central respiratory drive; Rat (Numao, Y.) **401**, 190

Newborn pig; Inspiratory neuron;

Pulmonary afferent (Sica, A.L.) **408**, 222

Respiration; Medullary respiratory neuron; Nucleus of the solitary tract; Antidromic stimulation; Cross-correlation; Rat (Saether, K.) **419**, 87

Respiratory rhythm; Expiratory neuron; Intracellular recording; Recurrent laryngeal nerve; Pulmonary afferent (See, W.R.) **421**, 363

Power spectra; Respiratory rhythm generator (RRG); High-frequency oscillation (HFO); Medium frequency oscillation (MFO); Neonatal swine; Development (Cohen, H.L.) **426**, 179

Regulation of respiration; Ventral medulla; Glutamate; Arterial pressure; Cat (Lawing, W.L.) **435**, 322

Phylogenetic conservation

Immunohistochemistry; Lamprey; Spinal cord; Neuropeptide (Buchanan, J.T.) **408**, 299

Phylogeny

Microtubule-associated protein 2; Evolution; Monoclonal antibody; Vertebrate brain; Protein phosphorylation (Fischer, I.) **436**, 39

Phystostigmine

Glucocorticoid; Dexamethasone; Acetylcholine; Neuromuscular junction; Myasthenia gravis (Veldsema-Currie, R.D.) **400**, 196

Pia arachnoid

Substance P; Trigeminal ganglion; Forebrain cerebral vessel; Capsaicin; Superior cervical ganglion; 6-Hydroxydopamine (Saito, K.) **403**, 66

Pial arteriole

Atrial natriuretic peptide; Atriopeptin I; Atriopeptin II; Cerebrovascular circulation; Immunohistochemistry (Macrae, I.M.) **435**, 195

Pial vessel

Cerebral circulation; Endothelium; Acetylcholine; Choline acetyltransferase (ChAT); Cholinergic innervation (Hamel, E.) **420**, 391

Pial-arachnoid vessel

Muscimol; GABA_A receptor; Circle of Willis artery; Autoradiography; Rat (Napoleone, P.) **423**, 109

Pick's disease

Alzheimer's disease; Mitochondrion; Glucose metabolism (Sims, N.R.) **436**, 30

Picrotoxin

Glutamate; Preoptic area; Locomotion (Sinnamon, H.M.) **400**, 270

Cholecystokinin; γ -Aminobutyric acid; Glutamate; Diazepam; Kynurenic acid (Yaksh, T.L.) **406**, 207

Growth hormone; Central

somatostatin; Phenoxybenzamine; Naloxone (Murakami, Y.) **407**, 405

Zona incerta–lateral hypothalamus; Morphine; Catalepsy; Muscular rigidity; Electromyogram; Bicuculline methiodide (Wardas, J.) **408**, 363

Molecular probe; Spreading depression; Seizure activity; Anoxia; Mitochondrion; Bicuculline (Evans, D.) **409**, 350

Locomotor activity; Dopamine; Nucleus accumbens; Ventral pallidum; Dorsomedial nucleus of the thalamus; Medial prefrontal cortex; Pedunculopontine nucleus; Apomorphine; Behavior (Swerdlow, N.R.) **412**, 233

Circling behavior; Honey bee; γ -Aminobutyric acid; Acetylcholine; Muscimol; Flaxedil; Nicotine; Lesion (Michelsen, D.B.) **421**, 14

Opiate; Morphine; γ -Aminobutyric acid; 4,5,6,7-Tetrahydroisoxazolo-[5,4-c]pyridin 3-ol (THIP); Microinjection; Periaqueductal gray; Rat; Analgesia; Pain-inhibition (Depaulis, A.) **436**, 223

Picrotoxin (TBPS) receptor

γ -Aminobutyric acid (GABA) receptor; GABA_A receptor blocker; Convulsant (Squires, R.F.) **414**, 357

Picrotoxinin

Movement detection; Behavior; Electrophysiology; Pharmacology; γ -Aminobutyric acid (GABA); Fly; *Drosophila* (Bülthoff, H.) **407**, 152

Pentobarbital; Spinal cord; Nociception; Naloxone; Bicuculline; Intrathecal; GABAergic transmission (Stein, C.) **407**, 307

Piezoelectric tube

Guidance channel; Axonal regeneration; Nerve transection (Aebischer, P.) **436**, 165

Pigeon

Lateralization; Visual system; Tectal commissure; Commissurotomy (Güntürkün, O.) **408**, 1

Auditory thalamus; Lateral lemniscus; Wheat germ agglutinin–horseradish peroxidase (WGA–HRP) (Wild, J.M.) **408**, 303

Pigeon behavior

Tumbling; Behavior mechanism; Serotonin; Amitriptyline (Smith, G.N.) **400**, 399

Pilocarpine

Scopolamine; Methscopolamine; Linear sweep voltammetry (Mueller, K.) **408**, 313

Pineal

Lizard; Melatonin; Parietal eye; Plasma; Temperature (Firth, B.T.) **404**, 313

Mouse; Melatonin; *N*-Acetyltransferase; Hydroxyindole-*O*-methyltransferase; Serotonin; *N*-Acetylserotonin (Ebihara, S.) **416**, 136

Rat; *N*-Acetyltransferase; Circadian rhythm; Entrainment (Illnerová, H.) **417**, 167

α -Mannosidase; β -Galactosidase; Hexosaminidase; β -Glucuronidase; Acid phosphatase; β -Glucosidase; Retina; Lysozyme; Rhythm (Vaughan, M.K.) **417**, 321

Pineal body

Human; Aging; Histology; Calcification; Cyst; Hypertension (Hasegawa, A.) **409**, 343

Pineal gland

Melatonin; 5-Methoxytryptamine; Methoxyindole; Arachidonic acid metabolism; Prostaglandin; Thromboxane; Medial basal hypothalamus (Franchi, A.M.) **405**, 384

N-Acetyltransferase activity; Rod photopigment; Albino rat (Bronstein, D.M.) **406**, 352

[³H]Ouabain binding; Na⁺, K⁺-ATPase; Autoradiography (Caspers, M.L.) **409**, 335

Arylsulfatase C; Estrone-sulfate sulfatase; Choroid plexus; Hypophysis; Median eminence; Histochemistry (Kawano, J.-I.) **409**, 391

Sympathetic nerve; Superior cervical ganglion; Cerebral blood vessel; Wheat germ agglutinin–horseradish peroxidase (WGA–HRP) (Tamamaki, N.) **437**, 387

Pineal melatonin

Peromyscus leucopus; Ultraviolet; Visible light; Wavelength (Benshoff, H.M.) **420**, 397

Pineal organ

Spectral sensitivity; Rat; Hamster; Guinea pig (Thiele, G.) **424**, 10

cis-2,3-Piperidine dicarboxylic acid (PDA)

β -*N*-Methylamino-L-alanine (BMAA); β -*N*-Oxalylamino-L-alanine (BOAA); 2-Amino-7-phosphonoheptanoic acid (AP7); Glutamate receptor antagonism; Organotypic tissue culture (Ross, S.M.) **425**, 120

Piracetam

2-Deoxyglucose; Autoradiography; Hippocampus; Cerebral cortex; Thalamus; Scopolamine; Rat (Piercey, M.F.) **424**, 1

Oxiracetam; Aniracetam; Pramiracetam; Passive avoidance; Adrenalectomy; Peripheral mechanism; Nootropics (Mondadori, C.) **435**, 310

Pirenzepine

Carbamylcholine; Scopolamine; Autoradiography; Quinuclidinyl benzilate; Muscarinic receptor

(Messer Jr., W.S.) **407**, 27

Scopolamine; Representational memory; M₁ muscarinic receptor; Tolerance; T-maze (Messer Jr., W.S.) **407**, 37

Scopolamine; Muscarinic receptor; Tolerance; Quinuclidinyl benzilate; Autoradiography (Messer Jr., W.S.) **407**, 46

Cerebral cortex; Muscarinic cholinergic receptor; Carbamylcholine; Inositol phosphate; AF-DX 116 (Smith, T.L.) **420**, 362

Pituitary

Adrenal; Endogenous opioid; Anticonvulsant; Maximal electroshock seizure (Long, J.B.) **402**, 155

Vasoconstriction; Sympathetic nervous system; Brainstem; Cardiovascular signal; Periaqueductal gray; Dorsal rostral pons (Ward, D.G.) **407**, 369

Prostaglandin E₂; Corticotropin releasing factor; Adrenocorticotropin; Cell culture (Sobel, D.O.) **411**, 102

Androgen receptor; Guinea pig brain; Guinea pig (Bonneau, M.) **413**, 104

Luteinizing hormone-releasing hormone (LH-RH); Bat; Ferret; Human; High performance liquid chromatography (HPLC) (Anthony, E.L.P.) **424**, 258

Pituitary cell

Muscarinic response; Action potential; Potassium channel (Hedlund, B.) **402**, 311

Pituitary gland

Dopamine synthesis; Fluoxetine; 5-Hydroxytryptamine synthesis; Neurointermediate lobe; Platelets; Tryptophan (Shannon, N.J.) **402**, 287

5,7-Dihydroxytryptamine; Dorsomedial nucleus of the hypothalamus; Electrical stimulation; 5-Hydroxytryptamine synthesis; Intermediate lobe; Neural lobe; Raphe nuclei (Shannon, N.J.) **416**, 322

Neurohypophysis; Digital imaging technique; Neurosecretion; Exocytosis; Secretory granule; Stimulation-secretion coupling; *Xenopus* (Terakawa, S.) **435**, 380

Estrogen receptor; Catecholamine; Noradrenaline; Noradrenergic system; Yohimbine; Hypothalamus; α -Noradrenergic receptor (Blaustein, J.D.) **436**, 253

Pituitary neural lobe

Capillary density; Paraventricular nucleus; Magnocellular neuron; Parvocellular neuron; Supraoptic nucleus; Brattleboro rat (Sposito, N.M.) **403**, 375

Pituitary stalk

Substantia nigra, pars compacta;

Paraventricular nucleus; Axon branching; Antidromic; Latency jump (Klemfuss, H.) **409**, 197

Pituitary tumor

Tuberoinfundibular neuron; Dopamine; Prolactin; Aging; Estrogen (Phelps, C.J.) **411**, 108

Tyrosine-hydroxylase; Dopamine; Norepinephrine; Prolactin; Hyperprolactinemia; Ectopic pituitary (Fernandez-Ruiz, J.J.) **421**, 65

[³H]PK 11195

Peripheral benzodiazepine binding site; Ontogenetic development; Brain; Heart; Lung (Fares, F.) **408**, 381

Progesterone; Central benzodiazepine receptor; Peripheral benzodiazepine binding site; [³H]Flunitrazepam (Gavish, M.) **409**, 386

Place conditioning

Dopamine; Opioid; Morphine; U-69593; SCH 23390; Reinforcement; Motivation (Shippenberg, T.S.) **436**, 169

δ-Receptor; Opioid; Reinforcement; [D-Pen¹, D-Pen⁵]-Enkephalin (DPDPE); ICI 174,864; Morphine (Shippenberg, T.S.) **436**, 234

Plasma

Lizard; Melatonin; Parietal eye; Pineal; Temperature (Firth, B.T.) **404**, 313

Plasma hyperkalemia

Rat; Choroid plexus; Quantitative stereology; Mitochondrion; Apical microvilli; Cerebrospinal fluid secretion; Cerebrospinal fluid potassium (Keep, R.F.) **413**, 45

Plasma membrane

Rat brain cortex; Two-dimensional electrophoresis; Abundant protein; Phosphorylation (Steisslinger, H.W.) **415**, 375

Estradiol; Arcuate nucleus; Hypothalamus; Neuronal membrane; Synapse; Freeze-fracture; Sex-difference (Olmos, G.) **425**, 57

Plasma norepinephrine

Parabrachial nucleus (PBN); Plasma renin; Baroreflex (Hubbard, J.W.) **421**, 226

Plasma renin

Parabrachial nucleus (PBN); Plasma norepinephrine; Baroreflex (Hubbard, J.W.) **421**, 226

Plasticity

Desmethylinipramine; 6-Hydroxydopamine; Monocular deprivation (Allen, E.E.) **401**, 397

Nucleus gracilis; Nucleus cuneatus; Basilar pontine nucleus (Kosinski, R.J.) **406**, 302

Collateral sprouting; Regeneration; Motor neurons; Tendon reflex (Ungar-Sargon, J.) **407**, 124

Neurite; Lysosome; Swainsonine; Storage disease; Enzyme replacement therapy (Walkley, S.U.) **410**, 89

Somatotopy; Spinal cord (Hylden, J.L.K.) **411**, 241

Somatostatin; Sprouting; Neurite; Regeneration; Peptide; Mollusc (Bulloch, A.G.M.) **412**, 6

γ-Aminobutyric acid; Catecholamine; Coexistence; Immunohistochemistry; Olfactory bulb (Kosaka, T.) **413**, 197

Acetylcholine; Choline acetyltransferase; Interpeduncular nucleus; Medial habenula; Fasciculus retroflexus; Cytochrome oxidase (Eckenrode, T.C.) **418**, 273

Interpeduncular nucleus; Fasciculus retroflexus; Substance P; Choline acetyltransferase; Serotonin; Cytochrome oxidase; Bodian stain; Development (Barr, G.A.) **418**, 301

Hemilabyrinthectomy; Eye movement; Functional recovery (Petrosini, L.) **418**, 398

5,7-Dihydroxytryptamine (5,7-DHT); Serotonin (5-HT); Receptor; Hypothalamus; Regeneration (Frankfurt, M.) **419**, 216

Neuron; Glia; Bouton; Dendrite; Capillary; Mitochondria; Rat; Memory; Learning (Sirevaag, A.M.) **424**, 320

Synapse; Aging; Cerebral cortex; Human (Adams, I.) **424**, 343

Plasticity of the cervico-ocular reflex

Cervico-ocular reflex; Cervical afferent; Eye-head orientation; Otolithic receptor; Rabbit (Pettorossi, V.E.) **403**, 58

Platelet

Dopamine synthesis; Fluoxetine; 5-Hydroxytryptamine synthesis; Neurointermediate lobe; Pituitary gland; Tryptophan (Shannon, N.J.) **402**, 287

Imipramine binding; Serotonin uptake; Estradiol; Tricyclic antidepressant; Gonadal hormone (Rehavi, M.) **410**, 135

Platinum electrode

Serotonin; Intracellular voltammetry; Metacerebral cell; *Aplysia* (Meulemans, A.) **414**, 158

PN 200-110

Dihydropyridine; Hippocampus; Frontal cerebral cortex; Spontaneously hypertensive rat (SHR); Senescence (Huguet, F.) **412**, 125

Polarizing microscopy

Human brain; Anterograde degeneration; Cholesterol ester crystal; Degenerated myelin; Macrophage; Tract tracing (Miklossy, J.) **426**, 377

Polycation

Protamine sulfate; Blood-brain barrier; Blood-brain barrier disruption; Endothelial surface charge; Heparin (Strausbaugh, L.J.) **409**, 221

Polymerization

Alcohol; Acetaldehyde; Brain; Microtubule; Tubulin; Adduct (McKinnon, G.) **416**, 90

Polymyxin B

[³H]Noradrenaline release; [³H]Dopamine release; Amygdala slice in vitro; 4β-Phorbol 12,13-dibutyrate; 4α-Phorbol 12,13-didecanoate (Versteeg, D.H.G.) **416**, 343

Synaptic plasticity; Dentate gyrus; Perforant path; H-7; Mellitin; Protein phosphorylation (Loving, D.M.) **436**, 177

Polyradiculoneuritis

Guillain-Barré syndrome; Peripheral nerve disease; Schwann cell; Myelin sheath; Tissue culture (Birchem, R.) **421**, 173

Polysynaptic connection

Lateral hypothalamic area; Lateral vestibular nucleus; Rat (Katafuchi, T.) **400**, 62

Pons

Superior colliculus; Cuneiform area; Tectopontine; Retrograde double-labelling (Redgrave, P.) **413**, 170

Medial basal hypothalamus; Serotonin; Midbrain; Immunohistochemistry; Fast blue; Fluoro-gold (Willoughby, J.O.) **418**, 170

Pontine tegmentum

Desynchronized sleep; Acetylcholine; Carbachol; Cat; Microinjection (Baghdoyan, H.A.) **414**, 245

Ponto-geniculo-occipital (PGO)

Sleep; Unit activity; Lateral geniculate nucleus; Development; Cat (Davenne, D.) **409**, 1

Ponto-geniculo-occipital (PGO) activity modulation

Amygdaloid stimulation; Paradoxical sleep (Calvo, J.M.) **403**, 22

Ponto-geniculo-occipital wave

Creutzfeldt-Jakob disease; Sleep; REM sleep; Neuropathological change; Raphé lesion; Cat (Gourmelon, P.) **411**, 391

Pontomedullary reticular formation

Reticular formation; Locomotion; Avian locomotion (Steeves, J.D.) **401**, 205

Population burst

Long-term potentiation; Hippocampus; Sharp wave; Memory; Model (Buzsáki, G.) **435**, 331

Population spike

Perforant path; Dentate gyrus; Long-term potentiation; Excitatory

postsynaptic potential (EPSP);
Feed-forward inhibition (Kairiss, E.W.)
401, 87

Serotonin; Hippocampus; G protein;
Adenylate cyclase; Pertussis toxin
(Clarke, W.P.) **410**, 357

Substantia nigra pars reticulata;
Dentate granule cell; NMDA
(*N*-methyl-D,L-aspartate); Limbic
system excitability; Basal ganglia
(Shin, C.) **411**, 21

Porcellio

Adipokinetic hormone (AKH); Red
pigment concentrating hormone
(RPCH); Neuropeptide;
Immunocytochemistry; Invertebrate
endocrinology; *Lymnaea*; Lithobius;
Astacus (Schooneveld, H.) **406**, 224

Position sense

Proprioception; Muscle receptor; Joint
receptor; Cutaneous receptor
(Ferrell, W.R.) **425**, 369

Positron emission tomography

Correlation matrix; Alzheimer's
disease; Deoxyglucose; Brain
metabolism (Horwitz, B.) **407**, 294

Cerebral metabolism; Auditory
stimulation (Kushner, M.J.) **409**, 79

Positron emission tomography (PET)

[³H]Cyclofoxy; Opiate receptor;
Naloxone; In vivo autoradiography;
Autoradiography; Cyclofoxy;
Radiolabeled opiates; Naltrexone; Rat
brain; Opiate receptor distribution;
6-Deoxy-6 β -fluoronaltrexone
(Ostrowski, N.L.) **402**, 275

Post-conditioning long-term potentiation (LTP)

Hippocampus; Area dentata; Perforant
path; Active avoidance; Post-tetanic
long-term potentiation (LTP);
Glycoprotein; Fucose; Memory
formation (Pohle, W.) **410**, 245

Post-mortem tissue

Alzheimer's disease; Somatostatin;
Cholinergic system; Cerebrospinal fluid
(CSF); Pathogenesis
(Reinikainen, K.J.) **402**, 103

Post-tetanic long-term potentiation (LTP)

Hippocampus; Area dentata; Perforant
path; Active avoidance;
Post-conditioning long-term
potentiation (LTP); Glycoprotein;
Fucose; Memory formation (Pohle, W.)
410, 245

Postejaculatory interval

Cerebrospinal fluid; Oxytocin;
Paraventricular nucleus; Sexual
behavior (Hughes, A.M.) **414**, 133

Posterior cingulate cortex

Electroencephalographic spike;
Multi-unit activity; Theta rhythm;
Transcallosal evoked potential; Fast
oscillation; Slow-wave sleep;

Rapid-eye-movement sleep
(Leung, L.-W.S.) **407**, 68

Cholinergic input; Basal forebrain
neuron; Septal nucleus; Theta rhythm;
EEG-spike; Pharmacology
(Borst, J.G.G.) **407**, 81

Anterior cingulate cortex; Learning and
memory; Hippocampus; Unit activity;
Lesion (Gabriel, M.) **409**, 151

Posterior oral cavity

Nucleus of the solitary tract;
Convergence; Gustatory; Anterior
tongue; Hamster; Breadth of
responsiveness (Sweazey, R.D.)
408, 173

Posterior pituitary

Hypothalamus; Prolactin; Serotonin;
Ether (Murai, I.) **420**, 227

Posteromedial barrel subfield

6-Hydroxydopamine; Somatosensory
cortex; Development (Loeb, E.P.)
403, 113

Posteroventral cochlear nucleus

Lateral superior olive; Auditory
system; Guinea pig; *Phaseolus vulgaris*
leucoagglutinin(PHA-L)
(Thompson, A.M.) **421**, 382

Postganglionic cardiac nerve

White ramus; Sympathetic ganglion;
Cervical sympathetic trunk; Evoked
potential (Szulczyk, A.) **421**, 127

Postganglionic stimulation

Cat bladder ganglion; Parasympathetic
neuron; Intracellular recording; Slow
synaptic hyperpolarization
(Kumamoto, E.) **435**, 403

Postischemic hypoperfusion

Global brain ischemia; Endothelial
microvilli; Microvasculature;
Transmission electron microscopy
(Kumar, K.) **421**, 309

Postmortem

Met-enkephalin; Leu-enkephalin;
Substance P; Cholecystokinin;
Dopamine; Human brain; Progressive
supranuclear palsy (Taquet, H.)
411, 178

Postmortem brain

Parvalbumin; Immunocytochemistry;
Cerebral cortex; Alzheimer's disease;
Senile dementia (Arai, H.) **418**, 164

Postmortem human brain

Huntington's disease;
Corticotropin-releasing hormone;
Somatostatin; Basal ganglia;
Radioimmunoassay (De Souza, E.B.)
437, 355

Postnatal development

Dopamine; Tyrosine hydroxylase;
 γ -Aminobutyric acid; Glutamic acid
decarboxylase; Coexistence; Olfactory
bulb; Immunohistochemistry
(Kosaka, K.) **403**, 355

Hypophysectomy; Neurosecretory
neuron; Regeneration; Median

eminence; Immunohistochemistry;
Vasopressin; Oxytocin (Kawamoto, K.)
422, 106

Postsynaptic calcium influx

Calcium entry blocker; CA₁;
Presynaptic calcium influx
(Jones, R.S.G.) **416**, 257

Postsynaptic density

β -Adrenergic receptor; Neostriatum;
Synaptosome; Somatosensory cortex;
Anterior cingulate cortex; Membrane
recycling (Aoki, C.) **437**, 264

Postsynaptic density shape

'Perforated' synapse (Geinisman, Y.)
422, 352

'Perforated' synapse (Geinisman, Y.)
423, 179

Postsynaptic potential

Expiratory neuron; Nucleus
retroambigualis; Intracellular
recording; Horseradish peroxidase;
Axon collateral; Antidromic
stimulation (Arita, H.) **401**, 258

Hippocampal slice; Hypothermia;
Anoxia; Energy metabolism
(Tanimoto, M.) **417**, 239

Membrane potential dependence;
Cerebral cortex; Lingual nerve; Inferior
alveolar nerve; Hypoglossal
motoneuron; Cat (Takata, M.) **426**, 358

Potassium

Ion-selective microelectrode; Brain
ionic homeostasis (Moghaddam, B.)
406, 337

Potassium channel

Pituitary cell; Muscarinic response;
Action potential (Hedlund, B.)
402, 311

Patch clamping; Inactivation;
Voltage-dependent channel;
Non-inactivating current; *Helix* neuron
(Ram, J.L.) **405**, 16

Modulation; Serotonin; Sensory
neuron; *Aplysia* (Pollock, J.D.)
410, 367

Axon; Development; Myelinated nerve
fiber (Rasminsky, M.) **411**, 167

Apamin; Cultured astrocyte; Glial cell;
Photoaffinity labeling; Receptor
subunit (Seagar, M.J.) **411**, 226

Mammalian neuron; Single channel;
Neonate (Simonneau, M.) **412**, 224

Acetylcholine; Peripheral nerve;
Conduction; Neurotransmitter; Cyclic
nucleotide; Cyclic guanosine
monophosphate (Kendig, J.J.) **435**, 24

Spinal cord neuron; Cell culture;
Phencyclidine (PCP);
Tetraethylammonium (TEA);
4-Aminopyridine (4-AP); Voltage
clamp; Action potential
(Aguayo, L.G.) **436**, 9

Neurohypophysis; Oxytocin release;

Naloxone; Opioid; 4-Aminopyridine; Tetraethylammonium ion (Racké, K.) **436**, 371

Potassium chloride excess

Cytochrome; Redox state; Electrical stimulation; Tetrodotoxin; Neurohypophysis (Harada, E.) **414**, 173

Potassium conductance

Slow synaptic current; Neuron modulation; Bursting cell; *Helix* (Pin, T.) **412**, 165

Catecholamine; Sympathetic preganglionic neuron; Slow synaptic potential; Spinal cord (Yoshimura, M.) **414**, 138

Catecholamine; Sympathetic neuron; Slow synaptic potential; Spinal cord (Yoshimura, M.) **419**, 383

Potassium current

Bursting neuron; Oscillation; Stomatogastric ganglion; Lobster; Central pattern generator (Harris-Warrick, R.M.) **416**, 381

Potassium ion

Perivascular microapplication; Hydrogen ion; Bradykinin; Adenosine; DC potential (Wahl, M.) **411**, 72

Anoxia; Electrophysiology; Hippocampal slice (Sick, T.J.) **418**, 227

Potassium-evoked release

Cerebellum; Noradrenaline; In vivo electrochemistry; Nomifensine; Rat (Gerhardt, G.A.) **413**, 327

Potential

Rat; Spinal cord; Antinociception; Morphine; Clonidine; Sensory system; Motor system (Wilcox, G.L.) **405**, 84

Facilitation; Long-term potentiation; Caffeine; Excitatory postsynaptic potential (Lee, W.-L.) **426**, 250

Power line frequency

Analgesia; Morphine; 60-Hz magnetic field; Mouse; Health effect (Ossenkopp, K.-P.) **418**, 356

Power spectra

Phrenic nerve; Respiratory rhythm generator (RRG); High-frequency oscillation (HFO); Medium frequency oscillation (MFO); Neonatal swine; Development (Cohen, H.L.) **426**, 179

Pramiracetam

Oxiracetam; Piracetam; Aniracetam; Passive avoidance; Adrenalectomy; Peripheral mechanism; Nootropics (Mondadori, C.) **435**, 310

Prazosin

Estrogen receptor; Norepinephrine; Noradrenergic system; Hypothalamus; Progesterin receptor; Catecholamine (Blaustein, J.D.) **404**, 39

[³H]Prazosin

α_1 -Adrenoceptor; α_2 -Adrenoceptor; β -Adrenoceptor; Distribution;

[³H]Idazoxan; [³H]Dihydroalprenolol; Catecholamine (Diop, L.) **402**, 403

Pre-pontine knife cut

Hyperthermia; Brown adipose tissue; Cardiac output distribution; Thermoregulation; Non-shivering thermogenesis (Shibata, M.) **436**, 273

Precruciate cortex

Frontal eye field; Presylvian cortex; Gyrus proreus; Prefrontal cortex; Paramedian pontine reticular formation; Oculomotor system; Cat; Horseradish peroxidase (Leichnetz, G.R.) **416**, 195

Precursor to GnRH

Gonadotropin releasing hormone (GnRH); Immunocytochemistry; Rat; Sheep; Rhesus monkey; Hypothalamus; Gonadotropin; Protein processing (Silverman, A.-J.) **402**, 346

Prednisolone

γ -Aminobutyric acid receptor; Sensitivity; Dorsal root ganglion; Bullfrog (Ariyoshi, M.) **435**, 241

Predorsal bundle

Superior colliculus; Tectospinal cell; Collicular commissure; Rat; Hamster (Sahibzada, N.) **415**, 242

Prefrontal cortex

Neuroanatomical tracing; *Phaseolus vulgaris*-leucoagglutinin (PHA-L); Double-label immunocytochemistry; Histamine; Histidine decarboxylase; Hypothalamus; Limbic system (Wouterlood, F.G.) **406**, 330

Mediodorsal nucleus; Ventromedial nucleus; Thalamocortical projection; Cat (Martínez-Moreno, E.) **407**, 17

Tail-pinch; 3,4-Dihydroxyphenylacetic acid (DOPAC); Nucleus accumbens; Minor tranquilizer (D'Angio, M.) **409**, 169

Prestriate cortex; Cooling; Visually initiated hand movement; Monkey (Sasaki, K.) **415**, 362

Frontal eye field; Precruciate cortex; Presylvian cortex; Gyrus proreus; Paramedian pontine reticular formation; Oculomotor system; Cat; Horseradish peroxidase (Leichnetz, G.R.) **416**, 195

Preganglionic

Thyrotropin-releasing hormone; Serotonin; Substance P; Coexistence; Immunohistochemistry; Intermediolateral cell column; Sympathetic outflow (Appel, N.M.) **415**, 137

Preganglionic fiber

Corticotropin-releasing factor (CRF); Superior cervical ganglion; Immunocytochemistry (Wanaka, A.) **435**, 91

Preganglionic parasympathetic neuron

Dorsal motor nucleus; Salivatory

nucleus; Morphology; Distribution; Cobaltic lysine; Japanese toad (Oka, Y.) **400**, 389

Pregnancy

Brain stimulation-induced aggression; Hypothalamus; Lactation; Maternal aggression; Female; Wound pattern (Mos, J.) **404**, 263

Opioid analgesia; Naltrexone; Spinal cord (Sander, H.W.) **408**, 389

Opioid analgesia; Hypophysectomy; Dexamethasone; β -Endorphin (Baron, S.A.) **418**, 138

Opiate; Lactation; Gonadal steroid; Preoptic area (Hammer Jr., R.P.) **420**, 48

Pregnanolone

Luteinizing hormone-releasing hormone (LH-RH); Hypothalamus; Superfusion; Push-pull perfusion; Rat (Park, O.-K.) **437**, 245

Pregnenolone

γ -Aminobutyric acid (GABA); γ -Aminobutyric acid receptor (Majewska, M.D.) **404**, 355

Premotor area

Corticospinal tract; Arcuate premotor area; Spinal cord (Martino, A.M.) **404**, 307

Premotor cortex

Partial epilepsy; Striatum; Substantia nigra; γ -Aminobutyric acid (GABA); Muscimol (Ono, K.) **405**, 183

Supplementary motor cortex; Arm movement; Motor control (Rea, G.L.) **418**, 58

Partial epilepsy; Striatum; γ -Aminobutyric acid (GABA); Glutamate; Acetylcholine (Ono, K.) **435**, 84

Premotor discharge

Superior colliculus; Sensorimotor integration; Multisensory interaction; Saccadic eye movement (Peck, C.K.) **420**, 162

Preoptic area

Glutamate; PicROTOXIN; Locomotion (Sinnamon, H.M.) **400**, 270

Brain-gut peptide; Secretin; Vasoactive intestinal peptide; Peptide histidine isoleucine amide; Luteinizing hormone; Prolactin (Kimura, F.) **410**, 315

Opiate; Pregnancy; Lactation; Gonadal steroid (Hammer Jr., R.P.) **420**, 48

Brain graft; Hypogonadal mouse; Luteinizing hormone; Reflex ovulation; Persistent estrus (Gibson, M.J.) **424**, 133

Self-stimulation; Lateral hypothalamus; Reinforcement; Lesion; Lateralized effect (Huston, J.P.) **436**, 1

Preoptic area projection

Hypothalamus; Subthalamic locomotor region (Swanson, L.W.) **405**, 108

Preoptic region

Hypothalamus; Immunohistochemistry; Medial preoptic area; Sexual dimorphism (Simerly, R.B.) **400**, 11

Preoptic-suprachiasmatic region

Na^+ , K^+ -ATPase; Estrous cycle; Ovariectomy; Estrogen; Mediobasal hypothalamus; Norepinephrine (Rodriguez del Castillo, A.) **416**, 113

Preoptic/anterior hypothalamic area

Growth hormone; Medial basal hypothalamus; Serotonin (Willoughby, J.O.) **404**, 319

Preparation

Stretch reflex; M_2 response; Voluntary response (Sullivan, S.J.) **412**, 139

Presaccadic spike potential

Computer model; Extraocular muscle; Activation pattern (Thickbroom, G.W.) **422**, 377

Pressor

α_2 -Adrenergic E_2 ; Prostaglandin $\text{F}_{2\alpha}$; Intracerebroventricular; Sympathetic nervous system; Tachycardia; Anaesthetised cat (Rao, T.S.) **435**, 7

Pressor area

α_2 -Adrenergic receptor; Clonidine; Idazoxan; Spontaneously hypertensive rat; Ventrolateral medulla; Wistar-Kyoto rat (Punnen, S.) **422**, 336

Pressor response

Drinking; Blood pressure; Angiotensin II; Catecholamine; Angiotensin-induced thirst (Bellin, S.I.) **416**, 75

Pressure test

Noradrenaline; 6-Hydroxydopamine; Medullary A_1 lesion; Dorsal bundle lesion; Locus coeruleus lesion; Morphine analgesia; Tail flick test; Hot plate test (Sawynok, J.) **419**, 156

Prestriate cortex

Striate cortex; Area 19DM; Heterotopic interhemispheric connection; Primate (Spatz, W.B.) **403**, 158

Prefrontal cortex; Cooling; Visually initiated hand movement; Monkey (Sasaki, K.) **415**, 362

Presylvian cortex

Frontal eye field; Precruciate cortex; Gyrus proreus; Prefrontal cortex; Paramedian pontine reticular formation; Oculomotor system; Cat; Horseradish peroxidase (Leichnetz, G.R.) **416**, 195

Presynaptic

Synaptic vesicle; Long-term potentiation; Hippocampus; Dendritic spine; Stereology (Applegate, M.D.)

401, 401

Presynaptic Ca^{2+} channel

Substance P; Morphine withdrawal; Withdrawal jumping (Ueda, H.) **425**, 101

Presynaptic calcium influx

Calcium entry blocker; CA_1 ; Postsynaptic calcium influx (Jones, R.S.G.) **416**, 257

Presynaptic control

Olfactory bulb; Noradrenaline release; γ -Aminobutyric acid (GABA); Rat (Gervais, R.) **400**, 151

Presynaptic inhibition

Spinal cord; Intra-axonal staining; Immunocytochemistry; Primary afferent fiber; γ -Aminobutyric acid; Cat (Maxwell, D.J.) **408**, 308

Presynaptic mechanism

Botulinum type A toxin; Ouabain; Neuromuscular junction; Transmitter release; Na^+ - Ca^{2+} exchange (Molgo, J.) **410**, 385

Presynaptic nerve terminal

Ciliary ganglion; Chick ciliary ganglion; Calyx synapse; Synapse structure; Lucifer yellow (Stanley, E.F.) **421**, 367

Presynaptic opiate receptor

Morphine; Locus coeruleus; Purkinje cell; Norepinephrine; γ -Aminobutyric acid; Inhibition (Moises, H.C.) **423**, 149

Presynaptic receptor

Hemicholinium-3; Acetylcholine; Quantal release; Central synapse (Poulain, B.) **435**, 63

Presynaptic regulatory mechanism

Quinpirole (LY171555); Dopamine D_2 agonist; DOCA/NaCl hypertension; Central dopaminergic activity; High performance liquid chromatography (HPLC) (Chen, Y.-F.) **413**, 15

Pretectal area

Superior colliculus; Dorsal lateral geniculate nucleus; Ventral lateral geniculate nucleus; Nucleus lateralis posterior; Parabigeminal nucleus (Lugo-Garcia, N.) **426**, 131

Pretectum

Visual system; Ipsilateral retinal afferent; Contralateral retinal afferent; Directional selectivity (Sperl, M.) **404**, 332

Accessory optic system; Direction selectivity; Optic tract nucleus; Optokinetic nystagmus (Natal, C.L.) **419**, 320

Dorsal lateral geniculate nucleus; Retina; Retinotopic map; Cat; Wheat germ agglutinin-horseradish peroxidase (WGA-HRP) (Kubota, T.) **421**, 30

Binocularity; Visual motion detection; Rotation selectivity; Salamander (Manteuffel, G.) **422**, 381

Prey-catching behavior

Cranial motoneuron; Localization; Horseradish peroxidase; Amphibian muscle; Toad (Takei, K.) **410**, 395

Primary afferent

C_3 - C_5 propriospinal neuron; Crossed; Uncrossed; Monosynaptic excitatory postsynaptic potential; Higher motor center (Alstermark, B.) **404**, 382

Primary afferent depolarization

γ -Aminobutyric acid (GABA); Calcium; Divalent cation (Curtis, D.R.) **422**, 192

Primary afferent fiber

Spinal cord; Intra-axonal staining; Immunocytochemistry; γ -Aminobutyric acid; Presynaptic inhibition; Cat (Maxwell, D.J.) **408**, 308

Primary afferent network

Pertussis toxin; Dorsal horn response; Spinal cord culture; Opioid network; Adenylate cyclase/cyclic AMP system (Crain, S.M.) **400**, 185

Primary culture

Prostanoid; Astroglia; Development (Seregi, A.) **404**, 113

Cerebellar neuron; Granule cell; Imipramine uptake; Lysosome (Novelli, A.) **411**, 291

α_2 -Adrenergic receptor; Cyclic adenosine monophosphate; Cortex; Striatum; Neuron; Pertussis toxin (Weiss, S.) **414**, 390

Astrocyte; Cyclic adenosine monophosphate (cAMP); Calcium channel (MacVicar, B.A.) **420**, 175

Primary cultured neuron

Epilepsy; Ganglioside GD_3 ; Immunocytochemistry; Mutant El mouse (Sugaya, E.) **406**, 270

Primary cultured γ -aminobutyric acid (GABA)ergic neuron

GABA metabolism; GABA receptor; Benzodiazepine receptor; Development (Kuriyama, K.) **416**, 7

Primary sensory afferent

Capsaicin; Urinary bladder; Spinal cord; Horseradish peroxidase; Selective degeneration (Jancsó, G.) **418**, 371

Primary sensory neuron

Glutamic oxaloacetic transaminase; Isozyme; Glutamate; Immunohistochemistry; Rat (Inagaki, N.) **402**, 197

Primate

Striate cortex; Prestriate cortex; Area 19DM; Heterotopic interhemispheric connection (Spatz, W.B.) **403**, 158

Tensor tympani; Trigeminal motor nucleus; Middle ear aeration (Gannon, P.J.) **404**, 257

Hippocampus; Granule cell; Golgi method; Fetal brain; Neonatal brain (Seress, L.) **405**, 169

Cholinergic pathway; Nucleus basalis (Kitt, C.A.) **406**, 192

Climbing fiber; Purkinje cell; Cerebellar cortex; Arm movement; Motor behavior (Wang, J.-J.) **410**, 323

Choline acetyltransferase; Hypothalamus; Immunohistochemistry; Tuber cinereum; Rat (Tago, H.) **415**, 49

Hypothalamus; Cholecystokinin release; Satiety; Push-pull perfusion (Schick, R.R.) **418**, 20

Basal ganglia; Globus pallidus; Dopamine; Tyrosine hydroxylase; Immunohistochemistry (Parent, A.) **426**, 397

Basal ganglia; Subthalamopallidal projection; Subthalamostriatal projection; Subthalamonigral projection; Axonal branching; Retrograde double-labeling technique (Parent, A.) **436**, 296

Cryopreservation; Neural transplantation; Dopamine; Culture (Collier, T.J.) **436**, 363

Primate brain

Mammalian brain; α_1 -Adrenoceptor; Autoradiography; Hippocampus; Olfactory bulb (Palacios, J.M.) **419**, 65

Primate precentral cortex organization

Cross-correlation analysis; Intracortical microstimulation; Reaching movement (Kwan, H.C.) **400**, 259

Primate retina

Benzodiazepine receptor; Glutamate decarboxylase; GABAergic synapse; Immunohistochemistry (Mariani, A.P.) **415**, 153

Cyclo(His-Pro)

Thermoregulation; Hypothermia; Dopamine (Prasad, C.) **437**, 345

Pro-enkephalin-related peptide

Valproic acid; γ -Aminobutyric acid (GABA); Enkephalin; Analgesia (Vion-Dury, J.) **408**, 243

Probenecid

Voltammetry; Spinal cord; 5-Hydroxyindole; Morphine; Nucleus raphe magnus (Chiang, C.-Y.) **411**, 259

Probst's bundle

Corpus callosum; Acallosal brain; Callosal development; Anterior commissure; Hippocampal commissure; DdN Strain mouse (Ozaki, H.S.) **400**, 239

Proconvulsant

8-Cyclopentyl 1,3-dimethylxanthine; Adenosine (Dragunow, M.) **417**, 377

Proctolin

Octopamine; Release; Visceral muscle; Insect (Orchard, I.) **413**, 251

Progabide

Substance P; Dopamine receptor

subtype; Sulpiride; SCH 23390; Selective regulation; Striatum; Substantia nigra (Oblin, A.) **421**, 387

γ -Aminobutyric acid (GABA); Glucose utilization; [14 C]2-Deoxyglucose technique; Muscimol; Central serotonergic neuron (Cudennec, A.) **423**, 162

Progesterone

Sex steroid; Cerebellar Purkinje cell; γ -Aminobutyric acid (GABA); Glutamate; Neuromodulation; Neuronal responsiveness; Anxiolytic action (Smith, S.S.) **400**, 353

Dopamine; Corpus striatum; In vitro; Female rat; Amphetamine (Dluzen, D.E.) **406**, 1

Central benzodiazepine receptor; Peripheral benzodiazepine binding site; [3 H]Flunitrazepam; [3 H]PK 11195 (Gavish, M.) **409**, 386

Opioid peptide; Pulsatile; Luteinizing hormone; Estradiol; Naloxone; Morphine (Babu, G.N.) **416**, 235

Estrogen; Cerebellar Purkinje cell; γ -Aminobutyric acid; Glutamate; Neuronal responsiveness; Neuromodulation; Anxiolytic (Smith, S.S.) **422**, 52

Progesterin receptor

Estrogen receptor; Norepinephrine; Noradrenergic system; Prazosin; Hypothalamus; Catecholamine (Blaustein, J.D.) **404**, 39

5,7-Dihydroxytryptamine; Estrogen receptor; Hypothalamus; Lordosis; Serotonin (Luine, V.N.) **426**, 47

Proglumide

Cholecystokinin; Dopamine; Electrophysiology; Ionophoresis; Neuromodulation (Chiodo, L.A.) **410**, 205

Morphine; Analgesia; Tolerance; Dependence; Cholecystokinin; Benzotript (Panerai, A.E.) **410**, 52

Cholecystokinin; Benzotript; Antagonist; Hippocampal slice (Jaffe, D.B.) **415**, 197

Progressive supranuclear palsy

Met-enkephalin; Leu-enkephalin; Substance P; Cholecystokinin; Dopamine; Postmortem; Human brain (Taquet, H.) **411**, 178

Projection

Leu-enkephalin; Mammillothalamic tract; Immunocytochemistry; Rat (Fujii, S.) **401**, 1

Prolactin

Sulpiride; Apomorphine; Dopamine; Adrenal gland; Sodium (Collu, R.) **401**, 23

γ -Aminobutyric acid (GABA); Lactotroph; Chloride channel; GABA_A

receptor; Patch clamp (Inenaga, K.) **405**, 159

Periaqueductal grey; Stimulation; Analgesia; β -Endorphin; Opioid; Stress (Millan, M.J.) **407**, 199

Hypothalamus; Subcellular distribution; Synaptosome; Acetylcholinesterase (Emanuele, N.V.) **407**, 223

Leumorphin; Lordosis; Ventromedial hypothalamus; Midbrain central gray (Sakuma, Y.) **407**, 401

Brain-gut peptide; Secretin; Vasoactive intestinal peptide; Peptide histidine isoleucine amide; Preoptic area; Luteinizing hormone (Kimura, F.) **410**, 315

Tuberoinfundibular neuron; Dopamine; Pituitary tumor; Aging; Estrogen (Phelps, C.J.) **411**, 108

Intrahypothalamic; Cimetidine; Serotonin; Luteinizing hormone (LH) (Kertes, E.) **413**, 10

Dopaminergic neuron; Dwarf mouse; Tyrosine hydroxylase; Immunocytochemistry (Phelps, C.J.) **416**, 354

Tuberoinfundibular neuron; Dopamine; Dihydroxyphenylacetic acid (DOPAC); Median eminence; Sex difference; Stress (Lookingland, K.J.) **419**, 303

Posterior pituitary; Hypothalamus; Serotonin; Ether (Murai, I.) **420**, 227

Tyrosine-hydroxylase; Dopamine; Norepinephrine; Hyperprolactinemia; Pituitary tumor; Ectopic pituitary (Fernandez-Ruiz, J.J.) **421**, 65

Brain; Anterior Pituitary; Radioimmunoassay; Bioassay; Gel filtration chromatography; Hypophysectomy; Restraint stress (Emanuele, N.V.) **421**, 255

Dopamine; Tuberoinfundibular dopaminergic neuron; Tuberohypophysial dopaminergic neuron (Gunnert, J.W.) **424**, 371

Tuberoinfundibular dopamine neuron; Median eminence; Arcuate nucleus stimulation; γ -Butyrolactone; 3,4-Dihydroxyphenylacetic acid (Lookingland, K.J.) **436**, 161

Proline

Ornithine; Arginine; Formoguanamine (2,4-diamino-S-triazine); Brain; Retina; Ornithine- δ -aminotransferase; Δ^1 -Pyrroline-5-carboxylate reductase (Matsuzawa, T.) **413**, 314

Glia; Neuron; Glial-neuronal interaction; Leucine; Axonal transport (Berkley, K.J.) **414**, 49

[3 H]Proline

Methylmercury; Axonal transport; Protein synthesis; Rat; Scintillation spectrometry; Autoradiography;

Methylmercury 203 (Aschner, M.)
401, 132

[³H]Leucine; Protein synthesis;
Differential labeling; Cat brain
(Elam, J.S.) **413**, 129

Proopiomelanocortin-containing neuron

Melanocyte-stimulating hormone;
 β -Endorphin; Dopaminergic agonist;
Dopaminergic antagonist;
Hypothalamus; High-performance
liquid chromatography; Perfusion
(Delbende, C.) **423**, 203

Propranolol

Clonidine; Isoproterenol;
Apomorphine; Thyrotropin secretion;
Yohimbine; Phentolamine; Sulpiride
(Jaffer, A.) **404**, 267

Locus coeruleus; Medial preoptic area
stimulation; Norepinephrine;
Luteinizing hormone-releasing
hormone; Luteinizing hormone;
 α -Methyl-*p*-tyrosine;
Phenoxybenzamine (Gitler, M.S.)
437, 332

Proprioception

Reflex; Freely moving animal; Load
compensation; Insect; Chordotonal
organ (Zill, S.N.) **417**, 195

Position sense; Muscle receptor; Joint
receptor; Cutaneous receptor
(Ferrell, W.R.) **425**, 369

Propylbenzylcholine mustard (PrBCM)

Cholinergic neurotransmission;
Muscarinic acetylcholine receptor;
Irreversible muscarinic acetylcholine
antagonist; Passive avoidance; Memory
deficit; Learning process; Alzheimer's
disease (Fukuchi, I.) **400**, 53

Prosencephalon

Olfactory organ; Malformation;
Cyclopia; Amphibian (Magrassi, L.)
412, 386

Prostaglandin

Catecholamine; Norepinephrine;
Isoproterenol; Parietal cortex;
Leukotriene (Busija, D.W.) **403**, 243

Melatonin; 5-Methoxytryptamine;
Methoxyindole; Arachidonic acid
metabolism; Thromboxane; Medial
basal hypothalamus; Pineal gland
(Franchi, A.M.) **405**, 384

Prostaglandin E

Phorbol diester
12-*O*-tetradecanoyl-phorbol-13-acetate;
Protein kinase C; Astrocyte;
Arachidonic acid metabolism; Immune
response; Inflammation
(Hartung, H.-P.) **417**, 347

Prostaglandin E₂

Corticotropin releasing factor;
Adrenocorticotropin; Pituitary; Cell
culture (Sobel, D.O.) **411**, 102

Hyperalgesia; Nociception; Bradykinin;

Leukotriene B₄; Norepinephrine
(Taiwo, Y.O.) **423**, 333

Prostaglandin F_{2α}

Intracerebroventricular; Sympathetic
nervous system; Pressor; Tachycardia;
Anaesthetised cat (Rao, T.S.) **435**, 7

Prostaglandin F_{2α}

Prostaglandin E₂;
Intracerebroventricular; Sympathetic
nervous system; Pressor; Tachycardia;
Anaesthetised cat (Rao, T.S.) **435**, 7

Prostanoid

Astroglia; Development; Primary
culture (Seregi, A.) **404**, 113

Astrocyte; Phorbol ester; Protein
kinase C; Calcium; Culture
(Jeremy, J.) **419**, 364

Prostanoid formation

Kainic acid; Behavioral change; Rat
hippocampus; Amygdala/pyriform
cortex; Parietal cortex (Baran, H.)
404, 107

Protamine sulfate

Blood-brain barrier; Blood-brain
barrier disruption; Polycation;
Endothelial surface charge; Heparin
(Strausbaugh, L.J.) **409**, 221

Protease inhibitor

[³H]Glutamate binding; Ca²⁺ ion;
Cl⁻-dependent binding; Cl⁻-dependent
and Ca²⁺-stimulated binding; Anion
transport carrier; D-Aspartate;
Quisqualic acid (Yoneda, Y.) **400**, 70

Leupeptin; Memory; Learning; Chick;
Conditioned avoidance (Davis, J.L.)
406, 10

Spinal cord injury; Neurofilament;
Leupeptin; E-64; Morphometry;
Fink-Heimer method (Iwasaki, Y.)
406, 99

Protease nexin I

Astrocyte; Cellular binding
(Rosenblatt, D.E.) **415**, 40

Protease sensitivity

[³H]Imipramine binding; Sodium
dependency; 5-Hydroxytryptamine;
Desipramine; Human brain
(Bäckström, I.T.) **425**, 128

Protein

Acid-base homeostasis; Ischemia;
Brain infarction; Buffer capacity;
Acidosis (Kraig, R.P.) **410**, 390

Fast axonal transport; Nerve
regeneration; Conditioning lesion;
Nerve crush; 2D-Gel; Frog
(Perry, G.W.) **423**, 1

Protein blot

Blood-brain barrier; Glycoconjugate;
Lectin; Cerebral endothelium; Cultured
cell (Fatehi, M.I.) **415**, 30

Protein kinase

Lithium; Phosphorylation; 64-KDa
protein; Calmodulin (Klein, E.) **407**, 312

Acetylcholine; Cyclic guanosine

monophosphate; Voltage clamp;
Cortex; Ionic conductance
(Woody, C.D.) **424**, 193

Protein kinase C

Phorbol ester; Transmitter release;
Hippocampus; Glutamate; Calcium
(Malenka, R.C.) **403**, 198

Voltage-dependent calcium channel;
Calmodulin; Calcium channel
antagonist; ⁴⁵Ca²⁺ uptake; PC12 cell
line (Greenberg, D.A.) **404**, 401

Protein phosphorylation; Neural
plasticity; Rhesus monkey; Visual
processing; Two-dimensional
electrophoresis (Nelson, R.B.) **416**, 387

Phorbol diester

12-*O*-tetradecanoyl-phorbol-13-acetate;
Astrocyte; Arachidonic acid
metabolism; Prostaglandin E; Immune
response; Inflammation
(Hartung, H.-P.) **417**, 347

Astrocyte; Prostanoid; Phorbol ester;
Calcium; Culture (Jeremy, J.) **419**, 364

Brain glucose uptake regulation;
Phorbol ester; Brain culture
(Clarke, D.) **421**, 358

Protein meal

Retina; Tyrosine; Tyrosine
hydroxylation; Rat (Fernstrom, M.H.)
401, 392

Protein phosphorylation

Hippocampal slice; 4-Aminopyridine;
Epilepsy; Ca²⁺/calmodulin (De
Graan, P.N.E.) **404**, 345

Astrocyte; Cyclic adenosine
monophosphate; Calcium (Neary, J.T.)
410, 164

Protein kinase C; Neural plasticity;
Rhesus monkey; Visual processing;
Two-dimensional electrophoresis
(Nelson, R.B.) **416**, 387

Microtubule-associated protein 2;
Evolution; Phylogeny; Monoclonal
antibody; Vertebrate brain (Fischer, I.)
436, 39

Synaptic plasticity; Dentate gyrus;
Perforant path; H-7; Mellitin;
Polymyxin B (Loving, D.M.)
436, 177

Ammonia; Astrocyte (Neary, J.T.)
437, 161

Protein polymorphism

Mouse; LTW-4; Two-dimensional
electrophoresis; Ethanol acceptance;
Pharmacogenetics; Inbred strain;
Recombinant inbred strain; Alcohol
(Goldman, D.) **420**, 220

Protein processing

Gonadotropin releasing hormone
(GnRH); Precursor to GnRH;
Immunocytochemistry; Rat; Sheep;
Rhesus monkey; Hypothalamus;
Gonadotropin (Silverman, A.-J.)
402, 346

Protein synthesis

Methylmercury; Axonal transport; Rat; Scintillation spectrometry; Autoradiography; [^3H]Proline; Methylmercury 203 (Aschner, M.) **401**, 132

Anisomycin; Circadian rhythm; Phase response curve; Oscillator; Hamster (Takahashi, J.S.) **405**, 199

[^3H]Leucine; [^3H]Proline; Differential labeling; Cat brain (Elam, J.S.) **413**, 129

Wallerian degeneration; Mitosis; Endothelial cell; Ornithine decarboxylase; RNA (Oaklander, A.L.) **419**, 39

Calcium overload; Neuroblastoma cell line; Energy metabolism; Amino acid incorporation; Calcium uptake (Abe, K.) **423**, 221

Proteinaceous

[^3H]Imipramine binding; 5-Hydroxytryptamine; Desipramine; Human brain; Aging; Dementia (Marcusson, J.O.) **425**, 137

Pruritus

Itch; Cutaneous receptor; Cowhage; Nociceptor; Mechanoreceptor (Tuckett, R.P.) **413**, 87

Itch; Cutaneous receptor; Cowhage; Nociceptor; Electrocutaneous stimulation; Signal averaging (Tuckett, R.P.) **413**, 95

Pseudocholinesterase

Cerebellum; Nodulus; Uvula; Sagittal zone; Purkinje cell; Bergmann glia (Gorenstein, C.) **418**, 68

Psychomotor stimulant

5,6-Dihydroxytryptamine; Methamphetamine; Neurotoxicity; Serotonin; Hippocampus (Commins, D.L.) **403**, 7

Psychophysics

Odor; Mixture suppression; 2-Deoxyglucose; Olfactory epithelium; Odor polarity; Human; Rat (Bell, G.A.) **426**, 8

Psychotomimetic opioid

Atropine; Electrocorticogram; Hippocampal theta wave; Phencyclidine; Serotonin; Sigma receptor (Vanderwolf, C.H.) **414**, 109

Pudendal nerve

Spinal cord; Transection; Evoked response; Supraspinal control; Lordosis; Cutaneous reflex (Cohen, M.S.) **401**, 103

Reticular formation; Back muscle; Lordosis behavior (Cohen, M.S.) **405**, 155

Pulmonary afferent

Newborn pig; Inspiratory neuron; Phrenic nerve (Sica, A.L.) **408**, 222

Phrenic; Recurrent laryngeal;

Hypoglossal; Respiratory rhythm; Oscillation; Spectral analysis; Carbon dioxide (Cohen, M.I.) **417**, 148

Respiratory rhythm; Expiratory neuron; Intracellular recording; Phrenic nerve; Recurrent laryngeal nerve (See, W.R.) **421**, 363

Pulmonary edema

Brain oxygen supply; Seizure; Status epilepticus; Cerebral hypoxia; Cytochrome oxidase (cytochrome a_3) (Kreisman, N.R.) **417**, 335

Pulsatile

Opioid peptide; Luteinizing hormone; Estradiol; Progesterone; Naloxone; Morphine (Babu, G.N.) **416**, 235

Pulvinar

Glutamate; Aspartate; Neurotransmitter; Visual cortex; Rat (Fosse, V.M.) **400**, 219

Unit activity; Auditory; Movement; Behavior; Monkey (Yirmiya, R.) **402**, 93

Retina; Visual cortex; Lateral geniculate nucleus; Immunohistochemistry; Peptide; Cat (Bliss Tieman, S.) **420**, 188

Pulvinar-lateralis posterior complex

Substantia nigra; Superior colliculus; Kainic acid; Turning behavior (Motles, E.) **405**, 165

Purification

S-100 protein; Brain-specific protein; Kidney; Enzyme immunoassay; Isoprotein (Semba, R.) **401**, 9

Purified insulin receptor

Bovine peripheral nervous system; Phosphorylation; Paleocortex; Liver; Superior cervical ganglion; Trigeminal ganglion; Structure; Function (Waldbillig, R.J.) **409**, 215

Purine catabolite

N-Methylaspartate; Hippocampus; Amino acid; Excitotoxic lesion (Lehmann, A.) **411**, 95

Purinergic

Olfaction; Lobster; Electrophysiology; Neurotransmitter; Adenosine; Adenosine monophosphate (Derby, C.D.) **421**, 57

Purkinje cell

γ -Aminobutyric acid (GABA); Calcitonin gene-related peptide; Coexistence; Immunocytochemistry; Rat (Kawai, Y.) **409**, 371

Climbing fiber; Cerebellar cortex; Arm movement; Primate; Motor behavior (Wang, J.-J.) **410**, 323

Magnetoencephalography; Neuromagnetism; Biomagnetism; Magnetic evoked field; Cerebellum; Turtle (Okada, Y.C.) **412**, 151

Pseudocholinesterase; Cerebellum; Nodulus; Uvula; Sagittal zone;

Bergmann glia (Gorenstein, C.) **418**, 68

Excitatory amino acid; Voltage clamp (Hamon, B.) **419**, 379

N-Acetylaspartylglutamate (NAAG); Dipeptide; Neuroexcitant; Cerebellum (Sekiguchi, M.) **423**, 23

Morphine; Presynaptic opiate receptor; Locus coeruleus; Norepinephrine; γ -Aminobutyric acid; Inhibition (Moises, H.C.) **423**, 149

Cerebellar cortex; Interposed nucleus; Simple spike; Cross-correlation (McDevitt, C.J.) **425**, 1

Cerebellar cortex; Interposed nucleus; Climbing fiber afferent; Complex spike; Simple spike (McDevitt, C.J.) **425**, 14

Deep cerebellar nucleus; Glutamic acid decarboxylase; Cerebellar cortex; Climbing fiber; Motor behavior; Behavioral recovery; Inferior olive; 3-Acetylpyridine (Sukin, D.) **426**, 82

Cyclic guanosine monophosphate (cGMP); Climbing fiber; 3-Acetylpyridine; Cerebellum; Simple spike; Complex spike (Oltmans, G.A.) **437**, 183

Excitatory amino acid; Receptor; Magnesium ion; N-Methyl-D-aspartate (NMDA); Quisqualate; Cerebellum (Sekiguchi, M.) **437**, 402

Purkinje cell basket

Non-phosphorylated neurofilament; Phosphorylated neurofilament; Hypothyroidism (Bignami, A.) **409**, 143

Purkinje cell degeneration

Mutant mouse; Spontaneous alternation; Habituation; Cerebellum (Lalonde, R.) **411**, 187

Purkinje neuron

Granule cell; Culture; Ethanol; Spontaneous activity; Glutamate response (Franklin, C.L.) **416**, 205

Purring

Intercostal activity; Cross-correlation; Stretch reflex; Small amplitude vibration; Vocalization (Kirkwood, P.A.) **405**, 187

Push-pull perfusion

Somatostatin; Neuropeptide Y; Amphetamine; Dopamine; Caudate nucleus (Tatsuoka, Y.) **411**, 200

Hypothalamus; Cholecystokinin release; Satiety; Primate (Schick, R.R.) **418**, 20

1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP); 1-Methyl-4-phenylpyridinium ion (MPP $^+$); Dopamine; 3,4-Dihydroxyphenylacetic acid (DOPAC); Caudate nucleus; Parkinsonism (Chang, G.D.) **424**, 49

Pregnanolone; Luteinizing hormone-releasing hormone (LH-RH); Hypothalamus; Superfusion; Rat

(Park, O.-K.) **437**, 245

Push–pull zinc

Hippocampus; In situ; Mossy fiber (Anikstejn, L.) **404**, 58

Putamen

Striatum; Caudate nucleus; Spinal trigeminal nucleus; Nociception; Wheat germ agglutinin–horseradish peroxidase (WGA-HRP); Horseradish peroxidase (HRP); Cat (Yasui, Y.) **408**, 334

Substantia nigra pars compacta; Striatum; Caudate nucleus; Striosome; Acetylcholinesterase; Dopamine; Tyrosine hydroxylase (Jimenez-Castellanos, J.) **437**, 349

Putrescine

Spermine; Spermidine; Synaptosome; Calcium uptake; Free intracellular calcium (Komulainen, H.) **401**, 50

Pyknosis

Brain cortex; Kainic acid; Neurotoxicity; Swelling; Calcium; Chloride; Cytoskeleton (Berdichevsky, E.) **423**, 213

Pyramidal cell

Hippocampal slice; Spreading depression; Inhibitory postsynaptic potential (IPSP); γ -Aminobutyric acid (GABA); Development; Anoxia (Janigro, D.) **404**, 189

Cholecalciferol (28 kDa CaBP); Hippocampal formation; Mossy fiber; Rat; Guinea pig; Hedgehog (Rami, A.) **422**, 149

Hippocampus; Complex-spike cell; θ -Neuron; Interneuron; Noradrenaline; α -Receptor; β -Receptor (Pang, K.) **425**, 146

Rat prefrontal cortex; Intracellular recording; In vitro slice preparation; Dopamine (Penit-Soria, J.) **425**, 263

Pyramidal neuron

Aging; Stress; Septohippocampal system; Cholinergic neuron; Rat strain (Gilad, G.M.) **436**, 311

Pyramidal tract neuron

Somatosensory cortex; Layer V pyramidal neuron; Intracellular horseradish peroxidase; Cat (Yamamoto, T.) **437**, 369

Pyramidotomy

Neonatal cortical lesion; Intracortical microstimulation; Corticospinal plasticity (Kartje-Tillotson, G.) **415**, 172

Pyrethroid

Neurotoxin; Sodium channel gating; Neuroblastoma; Temperature (Ruigt, G.S.F.) **437**, 309

Pyridoxine

Isoniazid; Huntington's disease; Cerebrospinal fluid amino acid; Cerebrospinal fluid γ -aminobutyric acid (Manyam, B.V.) **408**, 125

Δ^1 -Pyrroline-5-carboxylate reductase

Proline; Ornithine; Arginine; Formoguanamine (2,4-diamino-5-triazine); Brain; Retina; Ornithine- δ -aminotransferase (Matsuzawa, T.) **413**, 314

Pyruvate

Glucose; $^{14}\text{CO}_2$ production; Oxidation (Tildon, J.T.) **403**, 127

Q

Quail

Hypothalamus; Medial preoptic nucleus; Sexual dimorphism; Sexual differentiation; Testosterone (Panzica, G.C.) **416**, 59

Testosterone; Aromatase; 5α -Reductase; 5β -Reductase; Hypothalamus; Limbic system (Schumacher, M.) **422**, 137

Quaking mouse

Calcium; Calcium-activated neutral proteinase; $2',3'$ -Cyclic nucleotide $3'$ -phosphohydrolase; Myelin; Cytosol (Banik, N.L.) **435**, 57

Quantal analysis

Descending fiber; Motoneuron connexion; Unitary excitatory postsynaptic potential; Horseradish peroxidase staining (Babalian, A.L.) **407**, 394

Quantal release

Hemicholinium-3; Presynaptic receptor; Acetylcholine; Central synapse (Poulain, B.) **435**, 63

Quantified distribution

Serotonin; Neostriatum; Immunohistochemistry; Radioautography (Soghomonian, J.-J.) **425**, 85

Quantitation of β -adrenergic receptor

Cerebellar astrocyte; Culture condition and morphology; Intact cell and membrane (Voisin, P.J.) **404**, 65

Quantitative analysis

Synapse; Visual system; Bird; Monocular deprivation (Nixdorf, B.) **405**, 326

Quantitative autoradiography

Angiotensin II; Circumventricular organ; AV3V area; Paraventricular nucleus; Neuropeptide binding site (Plunkett, L.M.) **405**, 205

Regional cerebral blood flow; ^{14}C]Iodoantipyrine; Heroin; Naloxone; Rat (Trusk, T.C.) **406**, 238

Atrial natriuretic peptide; Atriopeptin; Atrial natriuretic peptide receptor; Circumventricular organ; Hypothalamic nucleus (Kurihara, M.) **408**, 31

Dopamine receptor; Brain dopamine; Substantia nigra; Caudate putamen; Nucleus accumbens; Olfactory tubercle (Aiso, M.) **408**, 281

α_2 -Adrenergic receptor; Spontaneously hypertensive rat; Essential hypertension; Cardiovascular control; Blood pressure regulation (Gehlert, D.R.) **409**, 308

Serotonin₁ receptor; Serotonin₂ receptor; Ketanserin; Serotonin-mediated behavior; 5,7-Dihydroxytryptamine (5,7-DHT) (Fischette, C.T.) **421**, 263

Cerebral blood flow; Cerebral ischemia; Gerbil; Immunohistochemistry (Matsumoto, M.) **424**, 231

Axonal transport; Dopamine D₁ receptor; Striatonigral pathway; ^{125}I -SCH 23982 (Aiso, M.) **426**, 392

Quantitative histochemistry

Glutaminase; Retina; Rat; Guinea pig; Glutamatergic neurotransmission; Metabolism (Ross, C.D.) **401**, 168

Quantitative stereology

Rat; Plasma hyperkalemia; Choroid plexus; Mitochondrion; Apical microvillus; Cerebrospinal fluid secretion; Cerebrospinal fluid potassium (Keep, R.F.) **413**, 45

Quaternary naltrexone

Opiate physical dependence; Conditioned place preference; Withdrawal distress; Naltrexone; Morphine pellet; Abstinence motivation (Mucha, R.F.) **418**, 214

Quick phase

Eye-head coordination; Gaze stabilization; Vestibular reflex; Saccade (Dieringer, N.) **404**, 33

Quiet biting attack behavior

Midbrain central gray; Affective defense behavior; 2-Deoxy- ^{14}C]glucose autoradiography; ^3H]Leucine autoradiography (Shaikh, M.B.) **437**, 9

Quiet sleep

Ibotenic acid; Hippocampus; Septum; Active sleep; Rhythmical slow activity; Cholinergic neuron; Electroencephalogram (Stewart, D.J.) **423**, 101

Quinine

Gustation; Lateral hypothalamus; Intrinsic neuron; Ibotenic acid; Saccharin; Rat (Ferissi, A.) **437**, 142

Quinoline

Quinolinic acid; *N*-Methyl-D-aspartate (NMDA) receptor; Electrophysiology; Excitatory amino acid; Cortex; Cell culture (Peters, S.) **420**, 1

Quinolinic acid

Striatonigral neuron; D₁ receptor; Substantia nigra; Neostriatum; Dopamine; [¹²⁵I]SCH 23982; SCH 23390; Denervation (Altar, C.A.) **410**, 1

Excitotoxin; Neuropeptide Y; Basal ganglion; Striatum; Rat; Immunohistochemistry (Boegman, R.J.) **415**, 178

Excitotoxin; Nucleus basalis; Choline acetyltransferase; Neurotoxicity (Boegman, R.J.) **417**, 315

Calcitonin gene-related peptide; Substance P; Kainic acid; Striatum; Immunohistochemistry; Cat (Sugimoto, T.) **418**, 392

Quinolate; *N*-Methyl-D-aspartate (NMDA) receptor; Electrophysiology; Excitatory amino acid; Cortex; Cell culture (Peters, S.) **420**, 1

Excitotoxin; Hippocampus; Brain lesion; Gliosis; Neurodegenerative disorder (Speciale, C.) **436**, 18

Quinpirole (LY171555)

Dopamine D₂ agonist; Presynaptic regulatory mechanism; DOCA/NaCl hypertension; Central dopaminergic activity; High performance liquid chromatography (HPLC) (Chen, Y.-F.) **413**, 15

Quinuclidinyl benzilate

Pirenzepine; Carbamylcholine; Scopolamine; Autoradiography; Muscarinic receptor (Messer Jr., W.S.) **407**, 27

Pirenzepine; Scopolamine; Muscarinic receptor; Tolerance; Autoradiography (Messer Jr., W.S.) **407**, 46

Quinuclidinyl benzilate (QNB) binding

Stress; Muscarinic cholinergic receptor; Supersensitivity; Regional response (Takayama, H.) **436**, 291

Quisqualate

Glutamate; (RS)- α -amino-3-hydroxy-5-methylisoxazole-4-propionic acid (AMPA); Excitatory amino acid receptor (Olsen, R.W.) **402**, 243

Frog spinal motoneuron; *N*-methyl-D-aspartate; Kainate; After-hyperpolarization; Sodium pump (Hackman, J.C.) **407**, 94

L-Cysteine-sulphinate; L-Aspartate; *N*-Methyl-D-aspartate; Kainate; Iontophoresis; Membrane potential; Caudate; Excitatory amino acid; Cat (Turski, W.A.) **414**, 330

Cyclic guanosine monophosphate (cGMP); Excitatory amino acid; *N*-Methyl-D-aspartate; Kainate; Neuronal culture (McCaslin, P.P.) **417**, 380

Hippocampal slice;

2-Amino-4-phosphonobutyrate; 2-Amino-6-phosphonohexanoate-glutamate; α -Amino-3-hydroxy-5-methyl-4-isoxazolepropionate (AMPA); Excitatory amino acid; Uptake (Harris, E.W.) **418**, 361

Rat superior colliculus; Cultured neuron; Ionic current; Glutamate receptor; *N*-Methyl-D-aspartate; D-Amino-phosphonovaleric acid (Grantyn, R.) **420**, 182

Excitatory amino acid; Receptor; Magnesium ion; *N*-Methyl-D-aspartate (NMDA); Purkinje cell; Cerebellum (Sekiguchi, M.) **437**, 402

Quisqualate receptor

Retina; L-Glutamate receptor; Excitatory amino acid; α -Amino-3-hydroxy-5-methylisoxazole-4-propionic acid (AMPA) (López-Colomé, A.M.) **414**, 99

Quisqualic acid

[³H]Glutamate binding; Ca²⁺ ion; Cl⁻-dependent binding; Cl⁻-dependent and Ca²⁺-stimulated binding; Anion transport carrier; D-Aspartate; Protease inhibitor (Yoneda, Y.) **400**, 70

QX-314

Respiratory neuron; Repetitive discharge; Calcium current (Mifflin, S.) **420**, 22

R**Rabbit**

Autoradiography; Vagal afferent fiber; Gastroduodenum; Axonal transport; Nodose ganglion (Sato, M.) **400**, 101

Cervico-ocular reflex; Cervical afferent; Eye-head orientation; Otolithic receptor; Plasticity of the cervico-ocular reflex (Pettorossi, V.E.) **403**, 58

Classical conditioning; Eyelid response; Neural plasticity; Cerebellum; Brainstem; Lesion; Learning (Mauk, M.D.) **403**, 89

Muramyl peptide; Peptidoglycan; Mass spectrometry; Sleep; Fever (Krueger, J.M.) **403**, 249

Autoradiography; Nodose ganglion; Axonal transport; Vagal afferent fiber; Epiglottis (Sato, M.) **410**, 101

A₁ neuron; Anodal and cathodal lesion; Clonidine; Methyl dopa; 6-Hydroxydopamine (Head, G.A.) **412**, 18

Auditory cortex; Bradycardia; Corticothalamic pathway; Differential

Pavlovian conditioning; Medial geniculate; Response inhibition (Jarrell, T.W.) **412**, 285

Hemicholinium-3; Acetylcholinesterase; Receptor autoradiography; Striatum; Acetylcholine; Striosome (Rhodes, K.J.) **412**, 400

Choline acetyltransferase; Cholinergic neuron; Starburst amacrine cell; Immunocytochemical staining; Retina (Famiglietti, E.V.) **413**, 398

Directionally selective ganglion cell; Starburst amacrine cell; Cholinergic neuron; Retina; Cat (Famiglietti, E.V.) **413**, 404

Retina; Horizontal cell; Receptive field; Ganglion cell; Surround excitability (Mangel, S.C.) **414**, 182

Central nervous system (CNS); Myelin sheath; Ranvier's node; Marchi staining; Density gradient centrifugation (Corneliusson, O.) **416**, 43

Acute-phase response; Fever; Slow-wave sleep; Glycoprotein (Shoham, S.) **419**, 223

Neuropeptide Y; Blood pressure; Rostral ventrolateral medulla; Bulbosplinal pathway; C₁ adrenaline-containing neuron (Pilowsky, P.M.) **420**, 380

Vestibulo-ocular reflex; Optokinetic reflex; Semicircular canal; Otolith; Linear acceleration; Angular acceleration; Eye movement (Barmack, N.H.) **424**, 89

Retina; Ganglion cell; Monoclonal antibody; Albino (Oyster, C.W.) **425**, 25

Chronic cathodal lesion; Noradrenergic neuron; 6-Hydroxydopamine; Central transmitter release; Blood pressure response; Heart rate response (Korner, P.I.) **435**, 258

Optokinetic reflex; Adaptive plasticity; Eye movement; Vestibuloocular reflex (Barmack, N.H.) **437**, 111

Rabbit retina

Choline acetyltransferase; Glutamate decarboxylase; Immunocytochemistry; Acetylcholinesterase; Dendritic stratification (Brandon, C.) **401**, 385

Choline acetyltransferase; Immunocytochemistry (Brandon, C.) **426**, 119

Radial maze

Learning; Hippocampus; Mossy fiber; Mouse (Crusio, W.E.) **425**, 182

Radial maze task

Basal forebrain; Medial septal nucleus; Cholinergic system; Passive avoidance task; Morris water task; Learning and memory; Animal model for dementia

(Miyamoto, M.) **419**, 19

Radioautography

Receptor; Opioid; Enkephalin;
Neostriatum; Electron microscopy
(Hamel, E.) **401**, 239

Serotonin; Neostriatum; Quantified
distribution; Immunohistochemistry
(Soghomonian, J.-J.) **425**, 85

Tyrosine hydroxylase; Midbrain;
Electron microscopy;
Immunocytochemistry (Hervé, D.)
435, 71

Radioenzymatic assay

Octopamine; Noradrenaline; Locus
coeruleus; False transmitter;
High-performance liquid
chromatography (HPLC) (Hicks, T.P.)
421, 315

Radioimmunoassay

Cerebrospinal fluid; Cholecystokinin;
Multiple sclerosis; Neuropeptide
(Bryld, E.) **409**, 364

BALB/c mouse strain; CBA mouse
strain; Substantia nigra zona compacta;
Ventral tegmental area; Caudate;
Met-Enkephalin; Micropunch
(Sanghera, M.K.) **412**, 200

Melanocyte-stimulating hormone;
Hypothalamus; Perfusion; Ion
(Jégou, S.) **413**, 259

Neurotensin; Wistar-Kyoto (WKY)
rat; Spontaneously hypertensive (SH)
rat; Brain (Shulkes, A.) **415**, 404

Met-enkephalin; Lateral olivocochlear
system; Noise stimulus; Cochlea;
Guinea pig (Eybalin, M.) **418**, 189

Prolactin; Brain; Anterior Pituitary;
Bioassay; Gel filtration
chromatography; Hypophysectomy;
Restraint stress (Emanuele, N.V.)
421, 255

Dynorphin; Leucine-enkephalin;
 β -Endorphin; Brain injury; Trauma
(McIntosh, T.K.) **425**, 225

Rat glioma cell; Secretion; S-100 (Van
Eldik, L.J.) **436**, 367

Circadian; Neurotensin; Substance P
(Albers, H.E.) **437**, 189

Renin; Brain cell culture;
Immunocytochemistry; High
performance liquid chromatography;
Normotensive WKY rat; Spontaneously
hypertensive (SH) rat (Hermann, K.)
437, 205

Huntington's disease;
Corticotropin-releasing hormone;
Somatostatin; Basal ganglia;
Postmortem human brain (De
Souza, E.B.) **437**, 355

Radiolabeled opiates

[³H]Cyclofoxy; Positron emission
tomography (PET); Opiate receptor;
Naloxone; In vivo autoradiography;
Autoradiography; Cyclofoxy;

Naltrexone; Rat brain; Opiate receptor
distribution;
6-Deoxy-6 β -fluoronaltrexone
(Ostrowski, N.L.) **402**, 275

Radioligand binding

Photoaffinity labeling; β -Adrenergic
receptor; Synaptic membrane; Cerebral
cortex; Cerebellum; Glycoprotein
(Lautens, L.L.) **426**, 401

Radioligand binding assay

α_2 -Adrenoceptor; Restraint stress;
Receptor modulation; [³H]Rauwolscine;
Rat brain (Nukina, I.) **401**, 30

Radioprotectant

Dithiothreitol; Epileptiform activity;
Hippocampus; Sulfhydryl reagent
(Tolliver, J.M.) **404**, 133

Radioreceptor assay

Alzheimer's disease; Multiple opioid
receptor; Human brain (Hiller, J.M.)
406, 17

Rainbow trout brain synaptosome

Voltage-dependent sodium channel;
Aconitine; Batrachotoxin; Veratridine;
Tetrodotoxin; *Leiurus quinquestriatus*
venom; DDT (Stuart, A.M.) **437**, 77

Rana pipiens

Amphibian; Antinociception;
Dynorphin; β -Endorphin;
Met-enkephalin (Stevens, C.W.)
402, 201

Choline acetyltransferase; Frog;
Immunohistochemistry; Nucleus isthmi;
Optic tectum (Desan, P.H.) **413**, 344

Ranvier's node

Rabbit; Central nervous system (CNS);
Myelin sheath; Marchi staining;
Density gradient centrifugation
(Corneliusson, O.) **416**, 43

Wallerian degeneration; Frog; Sciatic
nerve; Freeze-fracturing; Myelin;
Demyelination; Axolemma (Ishise, J.)
418, 85

Raphe

Cross-correlation; Hypothalamus;
Reticular formation; Short time scale
interaction; Spike-triggered averaging;
Sympathetic nerve discharge
(Gebber, G.L.) **410**, 106

Raphe complex

Coexistence; Retrograde fiber tracing;
5-Hydroxytryptamine; Glutamic acid
decarboxylase; Bulbospinal projection;
Rat (Millhorn, D.E.) **410**, 179

Raphe lesion

Creutzfeldt-Jakob disease; Sleep;
REM sleep; Ponto-geniculo-occipital
wave; Neuropathological change; Cat
(Gourmelon, P.) **411**, 391

Raphe magnus

Enkephalin; Reticular formation;
Retrograde tracer; Spinal cord;
Analgesia (Edwards, D.L.) **437**, 197

Raphe nuclei

Tooth pulp; Jaw-opening reflex;
Periaqueductal gray region
(Chung, R.Y.) **403**, 172

5,7-Dihydroxytryptamine; Dorsomedial
nucleus of the hypothalamus; Electrical
stimulation; 5-Hydroxytryptamine
synthesis; Intermediate lobe; Neural
lobe; Pituitary gland (Shannon, N.J.)
416, 322

Recurrent inhibition; Monosynaptic
reflex; Medulla oblongata; Descending
control; Lysergic acid diethylamide
(LSD) (Kaneko, T.) **417**, 403

Transforming growth factor-alpha;
Fluoro-Gold; Opioid peptide;
Met-enkephalin-Arg-Gly-Leu
(MERGL) peptide; Leu-enkephalin
peptide; Co-localization;
Interpeduncular nucleus (Code, R.A.)
421, 401

DL-5-Hydroxytryptophan;
Glutaraldehyde; Antibody;
Enzyme-linked immunosorbent assay;
Immunocytochemistry (Geffard, M.)
426, 191

Serotonin; Analgesia; Nociception;
p-Chlorophenylalanine; Dorsal spinal
cord; Motoneuron; Electrochemical
detection (Steinman, J.L.) **426**, 297

Serotonin; Dorsal spinal cord; Ventral
spinal cord; Image analysis
(Carlton, S.M.) **426**, 310

Raphe obscurus

Serotonin; Raphe pallidus; Nucleus
ambiguus; Phrenic motor nucleus
(Holtman Jr., J.R.) **417**, 12

Raphe pallidus

Serotonin; Raphe obscurus; Nucleus
ambiguus; Phrenic motor nucleus
(Holtman Jr., J.R.) **417**, 12

Rapid eye movement (REM) sleep

Muramyl peptide; Slow-wave sleep;
Brain temperature;
Electroencephalogram (EEG); Fever
(Krueger, J.M.) **403**, 258

Posterior cingulate cortex;
Electroencephalographic spike;
Multi-unit activity; Theta rhythm;
Transcallosal evoked potential; Fast
oscillation; Slow-wave sleep
(Leung, L.-W.S.) **407**, 68

Electroencephalographic sleep;
Non-rapid-eye-movement sleep;
Serotonin; Fluoxetine;
Trifluoromethylphenylpiperazine
(TFMPP); Rat (Pastel, R.H.) **436**, 92

Rapid freezing technique

Ischemia; Hippocampus;
[³H]2-Deoxyglucose; Light microscope
radioautography; Electron microscope
radioautography (Izumiyama, K.)
416, 175

Raptor

Centrifugal visual system (Weidner, C.) **436**, 153

Rat

Lateral hypothalamic area; Lateral vestibular nucleus; Polysynaptic connection (Katafuchi, T.) **400**, 62

Olfactory bulb; Noradrenaline release; γ -Aminobutyric acid (GABA); Presynaptic control (Gervais, R.) **400**, 151

Glutamate; Aspartate; Neurotransmitter; Pulvinar; Visual cortex (Fosse, V.M.) **400**, 219

Leu-enkephalin; Mammillothalamic tract; Immunocytochemistry; Projection (Fujii, S.) **401**, 1

Hippocampus; Commissural-associational system; Mouse; Cholecystokinin; Immunocytochemistry (Fredens, K.) **401**, 68

Methylmercury; Axonal transport; Protein synthesis; Scintillation spectrometry; Autoradiography; [3 H]Proline; Methylmercury 203 (Aschner, M.) **401**, 132

Glutaminase; Retina; Quantitative histochemistry; Guinea pig; Glutamatergic neurotransmission; Metabolism (Ross, C.D.) **401**, 168

Sympathetic preganglionic neuron; Aortic nerve; Respiration; Phrenic nerve; Central respiratory drive (Numao, Y.) **401**, 190

Retina; Tyrosine; Tyrosine hydroxylation; Protein meal (Fernstrom, M.H.) **401**, 392

Hippocampus; Acetylcholine; Choline acetyltransferase (ChAT); Monoclonal antibody; Immunocytochemistry; Morphometry; Septal lesion (Matthews, D.A.) **402**, 30

Nucleus accumbens; Neostriatum; Dopamine; *cis*-Flupenthixol; Locomotor activity (Ahlenius, S.) **402**, 131

Glutamic oxaloacetic transaminase; Isozyme; Glutamate; Immunohistochemistry; Primary sensory neuron (Inagaki, N.) **402**, 197

Glutamate release; Veratridine- and potassium-induced release; Calcium dependence of release; Tetrodotoxin; Anoxia; Hypoxia; Development of release (Minc-Golomb, D.) **402**, 255

Gonadotropin releasing hormone (GnRH); Precursor to GnRH; Immunocytochemistry; Sheep; Rhesus monkey; Hypothalamus; Gonadotropin; Protein processing (Silverman, A.-J.) **402**, 346

Brain adenosine; A_1 receptor; REM sleep deprivation (Yanik, G.) **402**, 362

Dorsal root ganglion; Ventral root; Afferent fiber; Bifurcation projection; Calcitonin gene-related peptide (Fang, X.-B.) **402**, 393

Caffeine; Sleep; Adenosine (Yanik, G.) **403**, 177

Cysteamine; Somatostatin; Norepinephrine; Dopamine; Cerebrospinal fluid (CSF); Memory; Activity (Haroutunian, V.) **403**, 234

Neuroglia; Astrocyte; Glial fibrillary acidic protein (GFAP); White matter; Spinal cord (Liuizi, F.J.) **403**, 385

Astrocyte; γ -Aminobutyric acid (GABA); GABA $_A$ -receptor; Chloride-channel; Neurotransmitter (Kettenmann, H.) **404**, 1

Area postrema; Enkephalin; γ -Aminobutyric acid (GABA); Guanethidine; Immunohistochemistry; Neurotensin; Neurotoxin; Serotonin (Newton, B.W.) **404**, 151

Complex convolution; Dorsal lateral geniculate nucleus (Satorre, J.) **404**, 231

Taste; Chorda tympani nerve; Single fiber; Ion specificity; Anodal current; Ionic taste stimulus (Ninomiya, Y.) **404**, 350

Spreading depression (SD); Slow potential change; Cyclic adenosine monophosphate (cAMP); Cerebral cortex (Gorelova, N.A.) **404**, 379

Relaxin; Oxytocin; Reflex milk-ejection; Cerebroventricular system; Hypothalamus (O'Byrne, K.T.) **405**, 80

Spinal cord; Antinociception; Morphine; Clonidine; Potentiation; Sensory system; Motor system (Wilcox, G.L.) **405**, 84

Tyrosine hydroxylase; Glutamate decarboxylase; Neostriatum; Immunohistochemistry; Synaptic input (Kubota, Y.) **406**, 147

Regional cerebral blood flow; [14 C]Iodoantipyrine; Quantitative autoradiography; Heroin; Naloxone (Trusk, T.C.) **406**, 238

Parasympathetic preganglionic neuron; Met-Enk-Arg-Gly-Leu; Immunohistochemistry (Shimosegawa, T.) **406**, 341

Bed nucleus of stria terminalis; Corticosterone; Limbic system (Dunn, J.D.) **407**, 327

6-Hydroxydopamine; Nucleus accumbens (Choulli, K.) **407**, 376

Hyperglycemia; Focal ischemia; Infarction; Middle cerebral artery; Lactacidosis (Nedergaard, M.) **408**, 79

L-Enkephalin; Dorsal tegmental nucleus; Ventral tegmental nucleus;

Fiber connection; Mammillary body; Interpeduncular nucleus; Immunocytochemistry (Yamano, M.) **408**, 22

Retina; Monolayer culture; Reaggregate culture; γ -Aminobutyric acid; Monoclonal antibody; Amacrine cell (Akagawa, K.) **408**, 154

Acetylcholine; Somatic sensory cortex; Neural modulation (Donoghue, J.P.) **408**, 367

Nucleus of the optic tract; Inferior olive; γ -Aminobutyric acid; Horseradish peroxidase; Tetramethylbenzidine; Monkey; Cat (Horn, A.K.E.) **409**, 133

γ -Aminobutyric acid (GABA); Calcitonin gene-related peptide; Coexistence; Purkinje cell; Immunocytochemistry (Kawai, Y.) **409**, 371

Angiotensinogen; Angiotensin II; Brain; Astrocyte; Neuron; Choroid plexus; Immunohistochemistry (Imboden, H.) **410**, 74

Guanine nucleotide-binding protein; Synapse; Immunohistochemistry; Retina; Neurotransmission (Terashima, T.) **410**, 97

Footshock; Hypovolemia; Osmotic stimulation; Synergism; Vasopressin (Shibuki, K.) **410**, 140

Coexistence; Retrograde fiber tracing 5-Hydroxytryptamine; Glutamic acid decarboxylase; Bulbosplinal projection Raphe complex (Millhorn, D.E.) **410**, 179

Horseradish peroxidase; Cortex; Red nucleus; Inclined plane; Clip injury (Midha, R.) **410**, 299

Immunocytochemistry; 3',5'-Cyclic guanosine monophosphate; Superior cervical ganglion (De Vente, J.) **411**, 120

Seizure; Phosphatidylinositol; Free fatty acid; Triacylglycerol; Diacylglycerol (Yoshida, S.) **412**, 114

Adriamycin; Blood-brain barrier; Disruption; Mannitol; Neurotoxicity; Chemotherapy (Kondo, A.) **412**, 73

Plasma hyperkalemia; Choroid plexus; Quantitative stereology; Mitochondrion; Apical microvillus; Cerebrospinal fluid secretion; Cerebrospinal fluid potassium (Keep, R.F.) **413**, 45

Cerebellum; Noradrenaline; In vivo electrochemistry; Potassium-evoked release; Nomifensine (Gerhardt, G.A.) **413**, 327

Substance P; Nucleus tractus solitarius; Substance P antagonist; Blood pressure; Heart rate (Kubo, T.) **413**, 379

- Aging; Sleep-wakefulness; Circadian rhythm; Period length; Free-running (Van Gool, W.A.) **413**, 384
- 5-Hydroxytryptamine; Temperature; Vagal afferent; Sucrose gap (Pike, G.K.) **413**, 388
- Embryonic graft; Neostriatum; Transplantation; Dendritic morphology; Spiny neuron; Morphometry (Zemanick, M.C.) **414**, 149
- Micturition reflex; Somato-vesical reflex; Vesico-vesical reflex; Urethane; Bladder voiding; Sensory neuron; Sensory-efferent function (Maggi, C.A.) **415**, 1
- Choline acetyltransferase; Hypothalamus; Immunohistochemistry; Tuber cinereum; Primate (Tago, H.) **415**, 49
- Quinolinic acid; Excitotoxin; Neuropeptide Y; Basal ganglion; Striatum; Immunohistochemistry (Boegman, R.J.) **415**, 178
- Medial preoptic area; Ventral noradrenergic tract; Luteinizing hormone; Testosterone; Naloxone; Androgenization; Sexual differentiation (Grossmann, R.) **415**, 205
- Superior colliculus; Tectospinal cell; Collicular commissure; Predorsal bundle; Hamster (Sahibzada, N.) **415**, 242
- Ro 15-1788; Analgesia; Benzodiazepine; Anxiety; Antinociception (Morgan, M.M.) **415**, 367
- Hyperthermia; Microwave; Glial fibrillary acidic protein; Brain damage; Response to injury (Miller, D.B.) **415**, 371
- Calcitonin gene-related peptide; Cerebellum; Development; Immunohistochemistry (Kubota, Y.) **415**, 385
- Vibrissa; Receptive field; Thalamic reticular neuron; Ventrobasal neuron (Sumitomo, I.) **415**, 389
- Ventromedial hypothalamic nucleus; Ibotenic acid; Food intake; Hyperphagia; Body weight; Obesity (Shimizu, N.) **416**, 153
- Central amygdala; Mamillary body; Benzodiazepine; Antianxiety action; Conflict behavior (Kataoka, Y.) **416**, 243
- Aging; Cholinergic neuron; Septum; Septo-hippocampal pathway; Single unit recording (Lamour, Y.) **416**, 277
- Electric field; Electrotherapy; Motor nerve; Regeneration; Nerve growth; Nerve lesion; Sciatic nerve (McDevitt, L.) **416**, 308
- Norepinephrine; Acetylcholine; Neurotransmitter interaction; Memory (Decker, M.W.) **417**, 59
- Pineal; *N*-Acetyltransferase; Circadian rhythm; Entrainment (Illnerová, H.) **417**, 167
- Visual cortex; Visual topography; Striate area; Extrastriate area; Callosal connection; Microelectrode mapping; Horseradish peroxidase (Thomas, H.C.) **417**, 214
- Cerebellum; Superior colliculus; Medial accessory olive; Climbing fiber response; Lobulus simplex (Akaike, T.) **417**, 371
- Cortex; Cholinergic; Somatostatin; Nucleus basalis; Immunohistochemistry (Mufson, E.J.) **417**, 385
- Hypothalamus; Grooming; Digging; Circling; Electrical brain stimulation; Discriminant analysis; Mapping (Lammers, J.H.C.M.) **418**, 1
- Ventral tegmental area; Occipital cortex; Forebrain; Substantia nigra pars compacta; Neuroanatomical differentiation; Horseradish peroxidase; Retrograde double labeling (Takada, M.) **418**, 27
- Septohippocampal pathway; Axonal terminal excitability; Antidromic stimulation; Microiontophoresis; γ -Aminobutyric acid (GABA); Glutamate; Impulse flow; Autoreceptor (Dutar, P.) **418**, 98
- Entopeduncular nucleus; Striatum; Habenula; Horseradish peroxidase; Fluorescent retrograde double labeling (Takada, M.) **418**, 129
- Ventrolateral medulla; Catecholamine metabolism; In vivo electrochemistry; Central nervous system cardiovascular control; Hemorrhagic shock; Controlled hypotension; Clonidine (Gillon, J.-Y.) **418**, 157
- Cytochrome oxidase; Succinate dehydrogenase; Mouse; Neocortex; Sensory map (Wallace, M.N.) **418**, 178
- Histaminergic innervation; Histidine decarboxylase-like immunoreactivity; Mesencephalic nucleus of the trigeminal nerve; Light microscopy; Electron microscopy; Immunocytochemistry (Inagaki, N.) **418**, 388
- Respiration; Medullary respiratory neuron; Phrenic nerve; Nucleus of the solitary tract; Antidromic stimulation; Cross-correlation (Saether, K.) **419**, 87
- Retina; γ -Aminobutyric acid (GABA); γ -Acetylenic GABA; γ -Vinyl GABA; Gabaculine (Cubells, J.F.) **419**, 208
- ¹²⁵I-Angiotensin II binding; Monosodium glutamate; Brain; Circumventricular organ (Rogulja, I.) **419**, 333
- Cl⁻-ATPase; Na⁺, K⁺-ATPase; Motoneuron; Spinal cord (Inagaki, C.) **419**, 375
- Peptide; Co-existence; Visual cortex; Immunohistochemistry (Papadopoulos, G.C.) **420**, 95
- Dorsal noradrenergic bundle; 6-Hydroxydopamine; Noradrenaline; α_2 -Adrenoceptor; β_1 -Adrenoceptor; Neocortex (Dooley, D.J.) **420**, 152
- Synaptic reorganization; Lesion; Medial amygdaloid nucleus; Accessory olfactory bulb; Electron microscopy (Ichikawa, M.) **420**, 243
- Synaptic reorganization; Lesion; Medial amygdaloid nucleus; Bed nucleus of stria terminalis; Accessory olfactory bulb; Electron microscopy; Degenerating synapse (Ichikawa, M.) **420**, 253
- Choline; Brain; Nicotinic receptor; α -Bungarotoxin (Morley, B.J.) **421**, 21
- Aversion; Brain stimulation; Local neuronal circuitry; Mesencephalon; Periaqueductal gray; Spike train; Stochastic process; Unit activity (Sandner, G.) **421**, 150
- Accumbens nucleus; Dopamine; Electron microscopy; γ -Aminobutyric acid; Immunocytochemistry; Lateral septum (Onténiente, B.) **421**, 391
- Cholecalciferol (28 kDa CaBP); Hippocampal formation; Mossy fiber; Pyramidal cell; Guinea pig; Hedgehog (Rami, A.) **422**, 149
- Myenteric neuron; Cell culture; Co-transmitter; Acetylcholine; Vasoactive intestinal peptide; Somatostatin (Willard, A.L.) **422**, 163
- Muscimol; GABA_A receptor; Circle of Willis artery; Pial-arachnoid vessel; Autoradiography (Napoleone, P.) **423**, 109
- Suprachiasmatic nucleus; Adrenocorticotrophic hormone (ACTH); Circadian rhythm lesion (Cascio, C.S.) **423**, 173
- Norepinephrine release; Brain slice; Electrical stimulation; Desipramine; Tyrosine; Hypothalamus (Irie, K.) **423**, 391
- 2-Deoxyglucose; Autoradiography; Hippocampus; Cerebral cortex; Thalamus; Piracetam; Scopalamine (Piercey, M.F.) **424**, 1
- Pineal organ; Spectral sensitivity; Hamster; Guinea pig (Thiele, G.) **424**, 10
- Hyperbilirubinemia; Bilirubin encephalopathy; Behavior; Open-field; Blood-brain barrier; Free bilirubin; Exploration (Hansen, T.W.R.) **424**, 26
- Immunohistochemistry; Fiber tracing; Colocalization; Fluoro-Gold dye; Neuropeptide; Bulbosplinal system

(Millhorn, D.E.) **424**, 99

Basal forebrain; Visual cortex; Wheat germ agglutinin–horseradish peroxidase (WGA–HRP); Basalocortical pathway (Carey, R.G.) **424**, 205

Medial preoptic area; Mediobasal hypothalamus; Testosterone; β -Endorphin; Neuropeptide Y; Neurotensin; Sexual differentiation; Opioid receptor (Diez-Guerra, F.J.) **424**, 225

Growth hormone-releasing factor (GRF); Immunohistochemistry; Paraventricular nucleus; Arcuate nucleus; Monoclonal antibody (Bruhn, T.O.) **424**, 290

Neuron; Glia; Bouton; Dendrite; Capillary; Mitochondria; Plasticity; Memory; Learning (Sirevaag, A.M.) **424**, 320

Embryonic graft; Neostriatum; Transplantation; Connectivity; Horseradish peroxidase (Walker, P.D.) **425**, 34

Axonal microenvironment; Axonal growth; Nigrostriatal pathway; Regeneration (Knoops, B.) **425**, 191

Substance P; Enkephalin; Coexistence; Hypothalamus (Shimada, S.) **425**, 256

Muscle spindle; Spindle afferent; Electron microscopy (Walro, J.M.) **425**, 311

A1-cell group; Caudal ventrolateral medulla; Catecholamine metabolism; In vivo voltammetry; Baroreceptor reflex; Vasomotor center; Central cardiovascular control (Quintin, L.) **425**, 319

Periaqueductal gray; Stimulation-produced analgesia; Tolerance; Analgesia; Pentobarbital (Morgan, M.M.) **425**, 356

Odor; Mixture suppression; Psychophysics; 2-Deoxyglucose; Olfactory epithelium; Odor polarity; Human (Bell, G.A.) **426**, 8

Tail flick reflex; Variability; Response latency (Ness, T.J.) **426**, 169

Medial prefrontal cortex; Excitotoxin; Baroreceptor reflex; Heart rate; Blood pressure (Verberne, A.J.M.) **426**, 243

Semicircular canal; Extraocular muscle; Gaze direction; Spatial geometry (Daunicht, W.J.) **435**, 48

Horseradish peroxidase; Motoneuron; Fast twitch muscle fiber; Slow twitch muscle fiber; Tibialis anterior muscle; Soleus muscle; Ageing (Ishihara, A.) **435**, 355

Nucleus accumbens; 6-Hydroxydopamine lesion; Opioid receptor; Hypersensitivity (Esposito, E.) **436**, 25

Electroencephalographic sleep; Rapid-eye-movement (REM) sleep; Non-rapid-eye-movement sleep; Serotonin; Fluoxetine; Trifluoromethylphenylpiperazine (TFMPP) (Pastel, R.H.) **436**, 92

Subthalamic nucleus; Spinal cord; Globus pallidus; Extrapyramidal system; Basal ganglia; Retrograde fluorescent labeling (Takada, M.) **436**, 129

Opiate; Morphine; γ -Aminobutyric acid; 4,5,6,7-Tetrahydroisoxazolo-[5,4-c]pyridin 3-ol (THIP); Picrotoxin; Microinjection; Periaqueductal gray; Analgesia; Pain-inhibition (Depaulis, A.) **436**, 223

Glucose utilization; Autoradiography; 2-Deoxyglucose; Serotonin; 5-HT_{1A} receptor; Ipsapirone; Hippocampus (Wree, A.) **436**, 283

Adenosine; Pertussis toxin; Acetylcholine; Adenosine 5'-N-ethylcarboxamide; Cerebral cortex (O'Regan, M.H.) **436**, 380

Gustation; Lateral hypothalamus; Intrinsic neuron; Ibotenic acid; Saccharin; Quinine (Ferssiwi, A.) **437**, 142

Audiogenic seizure; Inferior colliculus; Cyclic AMP; Convulsion (Ludvig, N.) **437**, 193

Pregnanolone; Luteinizing hormone-releasing hormone (LH-RH); Hypothalamus; Superfusion; Push–pull perfusion (Park, O.-K.) **437**, 245

Hippocampus; Cerebral cortex; Noradrenergic innervation; 6-Hydroxydopamine; Antidepressant drug; Learned helplessness; Escape failure (Soubrie, P.) **437**, 323

Spreading depression; Ketamine; Anoxic depolarization; Slow potential (Hernández-Cáceres, J.) **437**, 360

Rat adrenal

[³H]Glutamate binding; Stereo- and structure-selectivity; N-methyl-D-aspartic acid; 2-Amino-3-phosphonopropionic acid; Kynurenic acid; Solubilization of binding site (Yoneda, Y.) **406**, 24

Rat adrenal medulla

Adrenal medullary secretion; Epinephrine secretion; Norepinephrine secretion; Subthalamus; Zona incerta (Matsui, H.) **417**, 158

Rat brain

Nicotine; 2-Deoxyglucose; Local cerebral glucose utilization; Nicotine receptor (Grünwald, F.) **400**, 232

α_2 -Adrenoceptor; Restraint stress;

Receptor modulation;

[³H]Rauwolfscine; Radioligand binding assay (Nukina, I.) **401**, 30

[³H]Cyclofoxy; Positron emission

tomography (PET); Opiate receptor; Naloxone; In vivo autoradiography; Autoradiography; Cyclofoxy; Radiolabeled opiates; Naltrexone; Opiate receptor distribution; 6-Deoxy-6 β -fluoronaltrexone (Ostrowski, N.L.) **402**, 275

D₂ receptor; Acetylcholine release; Gekko brain; Telencephalic structure (Stoof, J.C.) **404**, 273

Ontogeny; Neurotensin; Binding (Schotte, A.) **408**, 326

γ -Aminobutyric acid receptor; Chloride ion channel; ³⁶Cl⁻ flux; Synaptoneurosome; Stress (Schwartz, R.D.) **411**, 151

Capillary; Choline acetyltransferase; Endothelial cell (González, J.L.) **412**, 148

Salsolinol; Catecholamine; Ethanol; Acetaldehyde; Gas chromatography-mass spectrometry (GC/MS) (Matsubara, K.) **413**, 336

Ionic channel; Development; Autoradiography (Mourre, C.) **417**, 21

Chronic bombesin; [³H]Spiperone binding; Glutamate decarboxylase; Choline acetyltransferase; Acetylcholinesterase (Hsu, L.L.) **417**, 232

Muscarinic acetylcholine receptor; M₁- and M₂-receptors; Ontogeny; In vitro autoradiography (Miyoshi, R.) **420**, 302

Hippocampal zinc; Mossy fiber; Depletion; Perikaryal accumulation; Colchicine (Szerdahelyi, P.) **422**, 287

Angiotensin II; Angiotensin III; Immunohistochemistry; Affinity purification (Imboden, H.) **426**, 225

Corticosteroid receptor; Immunocytochemistry (Van Eekelen, J.A.M.) **436**, 120

Rat brain cortex

Hypoxia; Recovery; Brain eicosanoid; Carbohydrate metabolite (Petroni, A.) **415**, 226

Plasma membrane; Two-dimensional electrophoresis; Abundant protein; Phosphorylation (Steisslinger, H.W.) **415**, 375

Rat cerebral cortex

Calcium antagonist; Muscarinic receptor; M₁-receptor (Katayama, S.) **422**, 168

Rat cortex

Strength–duration; Spreading depression; Cathodal stimulation (Reid, K.H.) **404**, 361

Rat corticosterone

β -Endorphin; Dynorphin; Tolerance; Independent opioid receptor (Iyengar, S.) **435**, 220

- Rat dentate gyrus**
Neuropeptide Y (Brooks, P.A.) **408**, 295
- Rat dorsal horn**
Opioid receptor; Spinal cord; μ -Opioid; δ -Opioid; Nociception; Analgesia; Intrathecal opioid; Enkephalin (Dickenson, A.H.) **413**, 36
- Rat dorsal horn**
 κ -Agonist; Intrathecal administration; Spinal cord; κ -Opioid receptor; Antinociception; Analgesia; U50488H; Ethylketocyclazocine; Dynorphin A₁₋₁₃ (Knox, R.J.) **415**, 21
- Rat forebrain**
Cholinergic nucleus; Immunohistochemistry; Development; Degeneration (Sofroniew, M.V.) **411**, 310
Cholinergic nucleus; Immunohistochemistry; Hypertrophy of neurons (Pearson, R.C.A.) **411**, 332
- Rat glioma cell**
Radioimmunoassay; Secretion; S-100 (Van Eldik, L.J.) **436**, 367
- Rat habenula**
Analgesia; Morphine; Naloxone; Pain (Mahieux, G.) **406**, 118
- Rat hippocampal slice**
Adenosine; Modulation; Synaptic transmission; Glutamate (Proctor, W.R.) **426**, 187
- Rat hippocampus**
Kainic acid; Behavioral change; Prostanoid formation; Amygdala/pyriform cortex; Parietal cortex (Baran, H.) **404**, 107
Choline acetyltransferase (ChAT) activation; Depolarization; Acetylcholine (ACh) release (Carroll, P.T.) **414**, 401
Delta-9-tetrahydrocannabinol (THC); Neuron morphology; Dendrite; Synaptic density (Scallet, A.C.) **436**, 193
- Rat hypothalamus**
Synapsis; Thyrotropin-releasing hormone terminal; Growth hormone-releasing factor neuron (Shioda, S.) **402**, 355
- Rat limbic system**
Glutamate; Aspartate; Immunohistochemistry; Nerve terminal pool (Yoshida, M.) **410**, 169
- Rat neostriatum**
Tyrosine hydroxylase; Choline acetyltransferase; Immunohistochemistry; Electron microscopy (Kubota, Y.) **413**, 179
- Rat prefrontal cortex**
Intracellular recording; In vitro slice preparation; Dopamine; Pyramidal cell (Penit-Soria, J.) **425**, 263
- Rat sciatic nerve**
Nerve regeneration; Nucleotide (Sjöberg, J.) **415**, 270
Acrylamide neuropathy; Node of Ranvier; Voltage clamp; Electron microscopy (Brismar, T.) **423**, 135
- Rat skeletal muscle**
Na⁺, K⁺ Transport; Deoxycorticosterone acetate (DOCA) hypertension; Denervation; Central nervous system (CNS) (Nagaoka, R.) **410**, 283
- Rat spinal cord**
Serotonin; Catecholamine; Uric acid; High-pressure liquid chromatography; Electrochemical detection (Basbaum, A.I.) **419**, 229
- Rat strain**
Aging; Cholinergic index; Dopamine uptake; Stress (Gilad, G.M.) **408**, 247
Aging; Stress; Septohippocampal system; Cholinergic neuron; Pyramidal neuron (Gilad, G.M.) **436**, 311
- Rat striatum**
Arylsulfatase; Kainic acid; Neuron; Astrocyte (Kung, M.-P.) **419**, 141
Excitotoxin; Choline acetyltransferase; Glutamate decarboxylase; Peripheral type benzodiazepine binding site (Benavides, J.) **421**, 167
- Rat substantia nigra neuron**
Slice preparation; Intracellular recording; Membrane property; Subthalamonigral input (Nakanishi, H.) **437**, 45
- Rat subthalamic neuron**
Slice preparation; Intracellular recording; Membrane property (Nakanishi, H.) **437**, 35
- Rat superior colliculus**
Cultured neuron; Ionic current; Glutamate receptor; N-Methyl-D-aspartate; Quisqualate; D-Amino-phosphonovaleric acid (Grantyn, R.) **420**, 182
- Rat urinary bladder**
Capsaicin; Sensory nerve terminal; Substance P; Neuropeptide (depletion from sensory nerves); Capsaicin desensitization (Maggi, C.A.) **436**, 402
- Rat visual system**
Axonal transport; Fluorescent tracer; Rhodamine-B-isothiocyanate (Thanos, S.) **406**, 317
[³H]Rauwolfscine
 α_2 -Adrenoceptor; Restraint stress; Receptor modulation; Radioligand binding assay; Rat brain (Nukina, I.) **401**, 30
- Reaching movement**
Cross-correlation analysis; Primate precentral cortex organization; Intracortical microstimulation (Kwan, H.C.) **400**, 259
- Reactive astrocyte**
Demyelination; Shared antigen; Glialfibrillary acidic protein antibody; Galactocerebroside antibody; Optic nerve (Carroll, W.M.) **411**, 364
- Reaggregate culture**
Retina; Monolayer culture; γ -Aminobutyric acid; Monoclonal antibody; Amacrine cell; Rat (Akagawa, K.) **408**, 154
- Recall**
Neuropeptide Y (NPY); Memory; Mouse; Retention (Flood, J.F.) **421**, 280
- Receptive field**
Corpus callosum; Monkey; Somatosensory system; Interhemispheric transfer; Midline fusion (Guillemot, J.-P.) **402**, 293
Eastern chipmunk (*Tamias sibiricus asiaticus*); Geniculate relay cell; Spectral response; Conduction latency (Wakakuwa, K.) **404**, 211
Retina; Horizontal cell; Ganglion cell; Surround excitability; Rabbit (Mangel, S.C.) **414**, 182
Vibrissa; Thalamic reticular neuron; Ventrobasal neuron; Rat (Sumitomo, I.) **415**, 389
- Receptor**
Benzodiazepine; Transport; Blood-Brain; Blood flow; Autoradiography; Integral method (Drewes, L.R.) **401**, 55
Opioid; Enkephalin; Radioautography; Neostriatum; Electron microscopy (Hamel, E.) **401**, 239
Narcolepsy; Dopamine; Sleep (Bowersox, S.S.) **402**, 44
N-Acetyl-aspartylglutamate; Lateral septal nucleus; Fimbria; Microiontophoresis; In vitro autoradiography (Joels, M.) **403**, 192
Aging; Basal forebrain; Cholinergic system; Hippocampus (Springer, J.E.) **407**, 180
Autoradiography; Hypothalamus; Central nervous system; Heart (Henke, H.) **410**, 404
Acetylcholine; Nicotine; Cat visual cortex; Lateral geniculate nucleus; Binding site (Prusky, G.T.) **412**, 131
Atrial natriuretic factor; Autoradiography (Mantyh, C.R.) **412**, 329
Olfaction; Partition coefficient; Regeneration (Hornung, D.E.) **413**, 147
Cholecystokinin; Vagus; Satiety (Moran, T.H.) **415**, 149
Neuropeptide Y (NPY); Autoradiography; Area postrema; SHR; Blood pressure (Nakajima, T.) **417**, 360
5,7-Dihydroxytryptamine (5,7-DHT);

Serotonin (5-HT); Hypothalamus; Regeneration; Plasticity (Frankfurt, M.) **419**, 216

Angiotensin II binding; Human brain; Lamina terminalis; Diencephalon (McKinley, M.J.) **420**, 375

Inositol phosphate metabolism; Serotonergic; Muscarinic; Retina (Cutcliffe, N.) **421**, 95

Spinal cord; Androgen; Estrogen; 5 α -Reductase (MacLusky, N.J.) **422**, 83

Aldosterone; Corticosterone; Hippocampus; Hypothalamus; Mineralocorticoid; Glucocorticoid (Yongue, B.G.) **436**, 49

Excitatory amino acid; Magnesium ion; N-Methyl-D-aspartate (NMDA); Quisqualate; Purkinje cell; Cerebellum (Sekiguchi, M.) **437**, 402

Receptor autoradiography

Angiotensin II; Hypothalamus; Subfornical organ; Salt gland; Receptor up-regulation; Pekin duck (Gerstberger, R.) **400**, 165

α -Bungarotoxin; Suprachiasmatic nucleus; Circadian rhythm; Hypothalamus; Light-dark cycle; Acetylcholine (Fuchs, J.L.) **407**, 9

1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP); Neurotensin receptor; Nigrostriatal pathway; Substantia nigra; Striatum; Monkey (Waters, C.M.) **412**, 244

Hemicholinium-3; Acetylcholinesterase; Striatum; Acetylcholine; Striosome; Rabbit (Rhodes, K.J.) **412**, 400

Upregulation; μ Opioid receptor; δ Opioid receptor; κ Opioid receptor; Amygdala; Naloxone (Paden, C.M.) **418**, 349

Sympathetic ganglion; Neuropeptide receptor; Renin angiotensin system; Peripheral sympathetic system (Castrén, E.) **422**, 347

Receptor binding

β -Adrenergic receptor; Supersensitivity; Norepinephrine; Morphine dependence; Withdrawal; Parietal cortex; Microiontophoresis (Moises, H.C.) **400**, 110

Tryptamine; Down-regulation; Monoamine oxidase inhibitor; Clorgyline; Frontal/parietal cortex; Chronic treatment (Martin, L.L.) **419**, 239

Receptor localization

Autoradiography; Brattleboro rat; Dehydration; Dynorphin; κ -Opiate receptor; Vasopressin (Brady, L.S.) **425**, 212

Receptor metabolism

Acetylcholine receptor; Lithium;

Skeletal muscle; Cation; Phosphoinositide; Calcium (Pestronk, A.) **412**, 302

Receptor modulation

α_2 -Adrenoceptor; Restraint stress; [3 H]Rauwolscine; Radioligand binding assay; Rat brain (Nukina, I.) **401**, 30

Receptor potential

Latency; Frog tongue; Taste stimulus; Fungiform papillae; Gustatory neural impulse (Sato, T.) **424**, 333

Receptor subtype

Serotonin; 8-Hydroxy-2-(di-*n*-propylamine)-tetralin (8-OH-DPAT); RU 24969; Mesulergine (Huang, J.C.) **436**, 173

Receptor subunit

Apamin; Cultured astrocyte; Glial cell; Photoaffinity labeling; Potassium channel (Seagar, M.J.) **411**, 226

Receptor turnover

Acetylcholine receptor; Transmission efficiency; α -Bungarotoxin (Rochel, S.) **435**, 41

Dopamine D₂-receptor; [3 H]Spiperone; Chronic neuroleptic treatment (Pich, E.M.) **435**, 147

Receptor type

Solubilization; Opioid receptor; Glycodeoxycholate/NaCl; Dilution (Maruyama, M.) **401**, 14

Receptor up-regulation

Angiotensin II; Receptor autoradiography; Hypothalamus; Subfornical organ; Salt gland; Pekin duck (Gerstberger, R.) **400**, 165

α -Receptor

Noradrenaline; Supraoptic neuron; Intracellular recording; Brain slice (Yamashita, H.) **405**, 348

Hippocampus; Complex-spike cell; θ -Neuron; Pyramidal cell; Interneuron; Noradrenaline; β -Receptor (Pang, K.) **425**, 146

α_1 -Receptor

Norepinephrine; Electrophysiology; Cultured astrocyte; Depolarization; Desensitization (Bowman, C.L.) **423**, 403

β -Receptor

C₆ cell; Opioid receptor; Appearance; Down-regulation (Reggiani, A.) **423**, 254

Hippocampus; Complex-spike cell; θ -Neuron; Pyramidal cell; Interneuron; Noradrenaline; α -Receptor (Pang, K.) **425**, 146

δ -Receptor

Place conditioning; Opioid; Reinforcement; [3 H]-Pen², D-Pen⁵]-Enkephalin (DPDPE); ICI 174,864; Morphine (Shippenberg, T.S.) **436**, 234

κ -Receptor

Opiate receptor; μ -Receptor;

Naloxone; Morphine; MR 2034; Corticotropin releasing factor (CRF); Adrenocorticotrophic hormone (ACTH) (Nikolarakis, K.) **421**, 373

μ -Receptor

Opiate receptor; κ -Receptor; Naloxone; Morphine; MR 2034; Corticotropin releasing factor (CRF); Adrenocorticotrophic hormone (ACTH) (Nikolarakis, K.) **421**, 373

σ -Receptor

Phencyclidine; Deoxyglucose; Glucose utilization; Limbic system; Brain imaging (Weissman, A.D.) **435**, 29

Recognition

Memory; Hippocampus; Medial temporal lobe; Single unit; Monkey (Brown, M.W.) **409**, 158

Recombinant inbred strain

Mouse; Protein polymorphism; LTW-; Two-dimensional electrophoresis; Ethanol acceptance; Pharmacogenetics; Inbred strain; Alcohol (Goldman, D.) **420**, 220

Recovery

Rat brain cortex; Hypoxia; Brain eicosanoid; Carbohydrate metabolite (Petroni, A.) **415**, 226

Recovery of function

Dopamine; Ventromedial hypothalamus; Defensive attack; Lateral septum; Gating mechanism (Maeda, H.) **407**, 381

Hippocampal transplant; Hippocampal lesion; Differential reinforcement of low response rate (DRL); Operant behavior (Woodruff, M.L.) **408**, 97

Recruitment

Stapedius; Motoneuron; Size-principle; Acoustic-reflex; Hearing (Kobler, J.B.) **425**, 372

Recurrent collateral inhibition

Hippocampus; Dentate gyrus; SKF-100330A; SKF-89976A; γ -Aminobutyric acid (GABA); γ -Aminobutyric acid (GABA) uptake blocker; γ -Aminobutyric acid (GABA)-mediated inhibition; Facilitation (Albertson, T.E.) **435**, 283

Recurrent inhibition

Epilepsy; Kindling; Hippocampus; Dentate gyrus; Long-term potentiation (De Jonge, M.) **412**, 318

Monosynaptic reflex; Raphé nucleus; Medulla oblongata; Descending control; Lysergic acid diethylamide (LSD) (Kaneko, T.) **417**, 403

Recurrent laryngeal

Phrenic; Hypoglossal; Respiratory rhythm; Oscillation; Spectral analysis; Pulmonary afferent; Carbon dioxide (Cohen, M.I.) **417**, 148

Recurrent laryngeal nerve

Respiratory rhythm; Expiratory

neuron; Intracellular recording; Phrenic nerve; Pulmonary afferent (See, W.R.) **421**, 363

Red nucleus

N-CAM; D2-protein; Synaptic remodelling; D1-protein; D3-protein; S-100; Lesion (Jørgensen, O.S.) **405**, 39

Horseradish peroxidase; Cortex; Inclined plane; Clip injury; Rat (Midha, R.) **410**, 299

Rubrospinal; Single unit; Microelectrode; Motor control; Digit movement; Monkey (Kennedy, P.R.) **417**, 185

Kindling; Epilepsy; Cerebellum; Mesencephalic lesion (Paz, C.) **422**, 99

Corticofugal influence; Synaptic potential (Fanardjian, V.V.) **425**, 65

Collateral sprouting; Corticorubral synapse; Classical conditioning; Electron microscopy (Murakami, F.) **437**, 379

Red pigment concentrating hormone (RPCH)

Adipokinetic hormone (AKH); Neuropeptide; Immunocytochemistry; Invertebrate endocrinology; *Lymnaea*; *Porcellio*; *Lithobius*; *Astacus* (Schooneveld, H.) **406**, 224

Redox state

Cytochrome; Potassium chloride excess; Electrical stimulation; Tetrodotoxin; Neurohypophysis (Harada, E.) **414**, 173

Reduced excitability

Caudate nucleus; Aged cat; Neurophysiology; Chronic recording (Levine, M.S.) **405**, 389

5 α -Reductase

Androgen; Developing spinal cord; Organotypic culture; Testosterone metabolism; Aromatase; Neurotrophic factor (Hauser, K.F.) **406**, 62

Spinal cord; Androgen; Estrogen; Receptor (MacLusky, N.J.) **422**, 83

Testosterone; Aromatase; 5 β -Reductase; Hypothalamus; Limbic system; Quail (Schumacher, M.) **422**, 137

5 β -Reductase

Testosterone; Aromatase; 5 α -Reductase; Hypothalamus; Limbic system; Quail (Schumacher, M.) **422**, 137

Redundancy

Brain; Coding; Spike; Statistical analysis; Triplet (Lestienne, R.) **437**, 214

Reflectance spectrophotometry

Cytochrome *aa₃* redox state; Cortical oxidative metabolism; Cortical blood volume; Cortical window; Carotid occlusion; Unanesthetized animal

(Vern, B.A.) **415**, 188

Reflex

Motor neuron pool; Lumbosacral plexus; Retrograde labeling (Ungar-Sargon, J.) **407**, 117

Proprioception; Freely moving animal; Load compensation; Insect; Chordotonal organ (Zill, S.N.) **417**, 195

Human; Pattern; Load perturbation; Synergy (McIlroy, W.E.) **407**, 317

Dynorphin; Spinal cord; Tail-flick; Neurotoxicity; Morphine (Caudle, R.M.) **435**, 1

γ -Motoneuron; Motor control; Spinal cord; Muscle afferent; Muscle spindle afferent; Cutaneous afferent; Movement sense (Johansson, H.) **435**, 337

Reflex activity

Isolated spinal cord; Mammalian; In vitro central nervous system preparation (Bagust, J.) **411**, 397

Reflex milk-ejection

Relaxin; Oxytocin; Cerebroventricular system; Rat; Hypothalamus (O'Byrne, K.T.) **405**, 80

Reflex ovulation

Brain graft; Hypogonadal mouse; Preoptic area; Luteinizing hormone; Persistent estrus (Gibson, M.J.) **424**, 133

Reflex sympathetic dystrophy

Nociceptor; C-fiber; Pain; Ephapse; Gap junction; Electrotonic; Sympathetic nervous system (Meyer, R.A.) **437**, 181

Refractory period

Electrical stimulation; Circling; Head turn; Body curvature; Summation; Anteromedial cortex; Medial pons (Tehovnik, E.J.) **407**, 240

Ventral root afferent; Collision technique; Dorsal root ganglion cell; Unmyelinated fiber; Single unit activity (Kim, J.) **417**, 304

Regeneration

Embryonic transplant; θ -Activity; Electroencephalogram; Unit activity; Hippocampus; Septum; Locus coeruleus; Behavior (Buzsáki, G.) **400**, 334

Axonal transport; Pharmacology (Edström, A.) **401**, 34

Collateral sprouting; Motor neurons; Tendon reflex; Plasticity (Ungar-Sargon, J.) **407**, 124

Laminin; Growth factor; Central nervous system; Immunoreactive site (Zak, N.B.) **408**, 263

Axonal reaction; Nerve crush; Axon number (Jenq, C.-B.) **409**, 250

Hippocampus; Serotonin;

Supersensitivity; Fimbria; Fornix (Lombardi, G.) **411**, 275

Somatostatin; Sprouting; Neurite; Peptide; Plasticity; Mollusc (Bulloch, A.G.M.) **412**, 6

Olfaction; Partition coefficient; Receptor (Hornung, D.E.) **413**, 147

Spinal cord; Command neuron; Lamprey (Currie, S.N.) **415**, 337

Electric field; Electrotherapy; Motor nerve; Nerve growth; Nerve lesion; Sciatic nerve; Rat (McDevitt, L.) **416**, 308

5,7-Dihydroxytryptamine (5,7-DHT); Serotonin (5-HT); Receptor; Hypothalamus; Plasticity (Frankfurt, M.) **419**, 216

Retinal ganglion cell axon; Peripheral nerve transplant; Hamster (Cho, E.Y.P.) **419**, 369

Hypophysectomy; Neurosecretory neuron; Median eminence; Immunohistochemistry; Vasopressin; Oxytocin; Postnatal development (Kawamoto, K.) **422**, 106

Target specificity; Cell body reaction (Burmeister, D.W.) **423**, 56

Axonal microenvironment; Axonal growth; Nigrostriatal pathway; Rat (Knoops, B.) **425**, 191

Spinal cord; Injury; Immunoglobulin G (IgG); Immunoglobulin M (IgM); Astrocyte; Immunoglobulin (Bernstein, J.J.) **426**, 112

Regional blood flow

Sleep; Cerebral circulation; Microsphere (Lenzi, P.) **415**, 14

Regional cerebral blood flow

[¹⁴C]Iodoantipyrine; Quantitative autoradiography; Heroin; Naloxone; Rat (Trusk, T.C.) **406**, 238

Regional development

Thyroid deficiency; Choline acetyltransferase; Subcortical cholinergic cell; Rehabilitation (Patel, A.J.) **422**, 182

Regional difference of GFA-protein

Astroglia; Glial fibrillary acidic protein (GFA-protein); In-situ hybridization; CDNA probe; Immunohistochemistry; Heterogeneity of astroglia (Kitamura, T.) **423**, 189

Regional glucose utilization

Peripheral nerve; Ischemia; 2-Deoxyglucose (Sladky, J.T.) **414**, 323

Regional neurochemistry

Electrosensory system; Neurotransmitter (Bissoli, R.) **405**, 380

Regional response

Stress; Muscarinic cholinergic receptor; Quinuclidinyl benzilate (QNB) binding; Supersensitivity (Takayama, H.) **436**, 291

Regulation

Peripheral nerve; Blood-nerve barrier; Calcium; Homeostasis; Blood vessel; Neuropathy; Hypercalcemia; Hypocalcemia; Endoneurium; Magnesium; Ion (Rechthand, E.) **406**, 185

Brain; Na^+ , K^+ -ATPase; Serotonin receptor (Hernández R., J.) **408**, 399

Regulation hindlimb tonus

C_3 - C_5 propriospinal neurone; Input; Subgroup (Alstermark, B.) **404**, 395

Regulation of respiration

Ventral medulla; Glutamate; Phrenic nerve; Arterial pressure; Cat (Lawing, W.L.) **435**, 322

Rehabilitation

Thyroid deficiency; Choline acetyltransferase; Regional development; Subcortical cholinergic cell (Patel, A.J.) **422**, 182

Reinforcement

In vivo autoradiography; Drinking; Opioid; Opiate receptor; Deprivation (Blake, M.J.) **413**, 111

Self-stimulation; Preoptic area; Lateral hypothalamus; Lesion; Lateralized effect (Huston, J.P.) **436**, 1

Dopamine; Opioid; Morphine; U-69593; SCH 23390; Motivation; Place conditioning (Shippenberg, T.S.) **436**, 169

Place conditioning; δ -Receptor; Opioid; [D-Pen^2 , D-Pen^5]-Enkephalin (DPDPE); ICI 174,864; Morphine (Shippenberg, T.S.) **436**, 234

Relaxation

Peptide; Pedal ganglion; *Mytilus*; Anterior byssus retractor muscle (ABRM); Catch tension; Inhibition (Hirata, T.) **422**, 374

Relaxin

Oxytocin; Reflex milk-ejection; Cerebroventricular system; Rat; Hypothalamus (O'Byrne, K.T.) **405**, 80

Relay cell

General cortex; Intrinsic neuron; Local circuit neuron; Reptile; Thalamus (Pritz, M.B.) **409**, 146

Relay neuron

Bird; Dorsal lateral geniculate nucleus; Retinal terminal; Wulst terminal; Synaptic glomerulus (Watanabe, M.) **401**, 279

Release

Serotonin; Substance P; Neuromedin K; Cerebral cortex; Spantide (Solti, M.) **401**, 377

Angiotensin II; Synaptosome; Catecholamine (Bottiglieri, D.F.) **403**, 167

Octopamine; Proctolin; Visceral muscle; Insect (Orchard, I.) **413**, 251

Intracellular calcium; Uptake; Inositol

trisphosphate; Brain microsome (Shah, J.) **419**, 1

REM sleep

Somatic stimulus; Sensory system (Arankowsky-Sandoval, G.) **400**, 155

Creutzfeldt-Jakob disease; Sleep; Ponto-geniculo-occipital wave; Neuropathological change; Raphé lesion; Cat (Gourmelon, P.) **411**, 391

Phentolamine; α -Adrenoceptor antagonist; Body temperature (Kent, S.) **415**, 169

REM sleep deprivation

Brain adenosine; A_1 receptor; Rat (Yanik, G.) **402**, 362

Remyelination

Schwann cell; Mitosis; Central nervous system (Harrison, B.M.) **409**, 163

Renal afferent nerve: antidromic activation

Myelinated axon; Unmyelinated axon; Dorsal root (Knuepfer, M.M.) **435**, 167

Renal function

Central amygdaloid nucleus; Conscious rats; Hypertension; Environmental stress; α - and β -Adrenoceptors (Koepke, J.P.) **404**, 80

Renal nerve

Kidney; Adrenergic receptor; Neurotransmitter; Hypertension (Sripanidkulchai, B.) **400**, 91

Viscerosympathetic reflex; Cardiac afferent; Very late response (Lukoshkova, E.V.) **412**, 357

Renin

Vasopressin; Blood pressure; Catecholamine; Thirst; Urinary water excretion (Davis, B.J.) **405**, 1

Brain cell culture; Immunocytochemistry; Radioimmunoassay; High performance liquid chromatography; Normotensive WKY rat; Spontaneously hypertensive (SH) rat (Hermann, K.) **437**, 205

Renin angiotensin system

Sympathetic ganglion; Neuropeptide receptor; Peripheral sympathetic system; Receptor autoradiography (Castrén, E.) **422**, 347

Renshaw cell

Locus coeruleus; Brainstem; Monosynaptic reflex; Descending control; Spinal cord; Motoneuron; Inhibition (Fung, S.J.) **402**, 351

Stochastic stimulation; Non-linear analysis; Synaptic facilitation; Synaptic depression (Windhorst, U.) **408**, 289

Repetitive discharge

Respiratory neuron; Calcium current; QX-314 (Mifflin, S.) **420**, 22

Representational memory

Pirenzepine; Scopolamine; M_1 muscarinic receptor; Tolerance; T-maze (Messer Jr., W.S.) **407**, 37

Reptile

General cortex; Intrinsic neuron; Local circuit neuron; Relay cell; Thalamus (Pritz, M.B.) **409**, 146

Reserpine

Corticotropin-releasing hormone (CRF); Adrenocorticotrophic hormone (ACTH); Catecholamine; Hypothalamus (Suda, T.) **405**, 247

Respiration

Sympathetic preganglionic neuron; Aortic nerve; Phrenic nerve; Central respiratory drive; Rat (Numao, Y.) **401**, 190

Sleep waking; Iontophoresis; Glutamate; Chronic cat (Foutz, A.S.) **404**, 10

Angiotensin II; Respiratory neurone; Nucleus of the tractus solitarius; Brainstem; Sensory physiology (Sessle, B.J.) **407**, 163

Avian; Vocalization; Nucleus tractus solitarius; Parabrachial nucleus; Tracheosyringeal motor nucleus (nXIIts) (Wild, J.M.) **407**, 191

Conscious; Olfaction; Brainstem; Action potential (Du Pont, J.S.) **414**, 163

Brainstem; Intercostal-to-phrenic reflex; Phrenic afferent; Spinal cord (Speck, D.F.) **414**, 169

Medullary respiratory neuron; Phrenic nerve; Nucleus of the solitary tract; Antidromic stimulation; Cross-correlation; Rat (Saether, K.) **419**, 87

Neural; Intracellular; Spinal cord; Cat (Duffin, J.) **435**, 351

Respiratory depression tolerance

Morphine; Etorphine; Heroin (Roerig, S.C.) **400**, 278

Respiratory neuron

Medulla; Halothane anesthesia; Retrofacial nucleus; Bötzing complex (Grelot, L.) **404**, 335

Angiotensin II; Nucleus of the tractus solitarius; Brainstem; Sensory physiology; Respiration (Sessle, B.J.) **407**, 163

Nucleus tractus solitarius; Antidromic mapping; Descending pathway (Jiang, C.) **413**, 189

Repetitive discharge; Calcium current; QX-314 (Mifflin, S.) **420**, 22

Respiratory rhythm

Neuronal activity; Rostral ventrolateral medulla; Brainstem in vitro; Newborn rat (Onimaru, H.) **403**, 380

Phrenic; Recurrent laryngeal; Hypoglossal; Oscillation; Spectral analysis; Pulmonary afferent; Carbon dioxide (Cohen, M.I.) **417**, 148

- Expiratory neuron; Intracellular recording; Phrenic nerve; Recurrent laryngeal nerve; Pulmonary afferent (See, W.R.) **421**, 363
- Respiratory rhythm generation**
Guinea pig; CNS electrophysiology; In vitro preparation; Intracellular recording; Brain perfusion (Richerson, G.B.) **409**, 128
- Respiratory rhythm generator (RRG)**
Phrenic nerve; Power spectra; High-frequency oscillation (HFO); Medium frequency oscillation (MFO); Neonatal swine; Development (Cohen, H.L.) **426**, 179
- Response center**
Bat; Inferior colliculus; Auditory space representation (Jen, P.H.) **419**, 7
- Response inhibition**
Auditory cortex; Bradycardia; Corticothalamic pathway; Differential Pavlovian conditioning; Medial geniculate; Rabbit (Jarrell, T.W.) **412**, 285
- Response latency**
Tail flick reflex; Rat; Variability (Ness, T.J.) **426**, 169
- Response pattern**
Olfactory bulb (Schild, D.) **405**, 364
- Response to injury**
Hyperthermia; Microwave; Glial fibrillary acidic protein; Brain damage; Rat (Miller, D.B.) **415**, 371
- Restraint stress**
 α_2 -Adrenoceptor; Receptor modulation; [3 H]Rauwolfscine; Radioligand binding assay; Rat brain (Nukina, I.) **401**, 30
- Prolactin; Brain; Anterior Pituitary; Radioimmunoassay; Bioassay; Gel filtration chromatography; Hypophysectomy (Emanuele, N.V.) **421**, 255
- Retention**
Neuropeptide Y (NPY); Memory; Mouse; Recall (Flood, J.F.) **421**, 280
- Memory; Opioid; Naloxone; Nalmefene (Flood, J.F.) **422**, 218
- Reticular formation**
Pontomedullary reticular formation; Locomotion; Avian locomotion (Steeves, J.D.) **401**, 205
- Pudendal nerve; Back muscle; Lordosis behavior (Cohen, M.S.) **405**, 155
- Cross-correlation; Hypothalamus; Raphe; Short time scale interaction; Spike-triggered averaging; Sympathetic nerve discharge (Gebber, G.L.) **410**, 106
- Blood flow; Common carotid artery; Medulla; Vascular resistance (Kuo, J.S.) **417**, 181
- Nucleus reticularis gigantocellularis; Spinal cord; Motoneuron; Inhibitory postsynaptic potential (IPSP); Sleep; Glycine; γ -Aminobutyric acid (Soja, P.J.) **423**, 353
- Enkephalin; Raphe magnus; Retrograde tracer; Spinal cord; Analgesia (Edwards, D.L.) **437**, 197
- Reticular nucleus**
Sensory deprivation; Cytochrome oxidase; Glutamic acid decarboxylase (GAD); Thalamus (Land, P.W.) **425**, 178
- Reticulospinal neuron**
Motoneuron; Excitatory postsynaptic potential; Excitatory amino acid receptor; Lamprey (Buchanan, J.T.) **408**, 321
- Reticulospinal system**
Mesencephalic locomotor region; Medulla (Garcia-Rill, E.) **411**, 1
- Mesencephalic locomotor region; Medulla (Garcia-Rill, E.) **411**, 13
- Retina**
Glutaminase; Quantitative histochemistry; Rat; Guinea pig; Glutamatergic neurotransmission; Metabolism (Ross, C.D.) **401**, 168
- Tyrosine; Tyrosine hydroxylation; Protein meal; Rat (Fernstrom, M.H.) **401**, 392
- N-Acetylaspartylglutamate; Immunohistochemistry; Neuropeptide; Spinal sensory neuron; Amphibian (Kowalski, M.M.) **406**, 397
- Monolayer culture; Reaggregate culture; γ -Aminobutyric acid; Monoclonal antibody; Amacrine cell; Rat (Akagawa, K.) **408**, 154
- Enkephalin; γ -Aminobutyric acid; Coexistence; Intracellular recording; On-Off ganglion cell; Larval tiger salamander (Watt, C.B.) **408**, 258
- Axon guidance; Cortex; Xenograft; Allograft; Superior colliculus (Hankin, M.H.) **408**, 344
- Guanine nucleotide-binding protein; Synapse; Immunohistochemistry; Neurotransmission; Rat (Terashima, T.) **410**, 97
- Optic tract; Lateral geniculate nucleus; Superior colliculus; Dipeptide; Immunohistochemistry; High-performance liquid chromatography (Anderson, K.J.) **411**, 172
- Neurotransmitter; Immunocytochemistry; Autoradiography; γ -Aminobutyric acid (GABA) (Yazulu, S.) **411**, 400
- Proline; Ornithine; Arginine; Formoguanamine (2,4-diamino-S-triazine); Brain; Ornithine- δ -aminotransferase; Δ^1 -Pyrroline-5-carboxylate reductase (Matsuzawa, T.) **413**, 314
- Choline acetyltransferase; Cholinergic neuron; Starburst amacrine cell; Immunocytochemical staining; Rabbit (Famiglietti, E.V.) **413**, 398
- Directionally selective ganglion cell; Starburst amacrine cell; Cholinergic neuron; Cat; Rabbit (Famiglietti, E.V.) **413**, 404
- Quisqualate receptor; L-Glutamate receptor; Excitatory amino acid; α -Amino-3-hydroxy-5-methylisoxazole-4-propionic acid (AMPA) (López-Colomé, A.M.) **414**, 99
- Horizontal cell; Receptive field; Ganglion cell; Surround excitability; Rabbit (Mangel, S.C.) **414**, 182
- Kainic acid; Tectum; Ganglion cell; Degeneration; Excitotoxicity; Synapse (Ehrlich, D.) **415**, 342
- α -Mannosidase; β -Galactosidase; Hexosaminidase; β -Glucuronidase; Acid phosphatase; β -Glucosidase; Pineal; Lysozyme; Rhythm (Vaughan, M.K.) **417**, 321
- Dopamine; Melatonin; Serotonin N-acetyltransferase; Cyclic nucleotide phosphodiesterase (Iuvone, P.M.) **418**, 314
- Rat; γ -Aminobutyric acid (GABA); γ -Acetylenic GABA; γ -Vinyl GABA; Gabaculine (Cubells, J.F.) **419**, 208
- Visual cortex; Lateral geniculate nucleus; Pulvinar; Immunohistochemistry; Peptide; Cat (Bliss Tieman, S.) **420**, 188
- Pretectum; Dorsal lateral geniculate nucleus; Retinotopic map; Cat; Wheat germ agglutinin-horseradish peroxidase (WGA-HRP) (Kubota, T.) **421**, 30
- Inositol phosphate metabolism; Receptor; Serotonergic; Muscarinic (Cutcliffe, N.) **421**, 95
- Acetylcholinesterase; Chicken; Histochemistry; Immunohistochemistry; Ultrastructure (Millar, T.J.) **421**, 297
- Aspartate; Dopamine; γ -Aminobutyric acid; Acetylcholine; Visual pathway; Dark adaptation; Light adaptation (Chentanez, T.) **424**, 115
- Dopamine; Dihydroxyphenylalanine; Light (Brainard, G.C.) **424**, 199
- Light-dark adaptation; Chronic SCH 23390; D₁ dopamine receptor; [3 H]SCH 23390 binding; Dopamine-sensitive adenylate cyclase (Porceddu, M.L.) **424**, 264
- Immunocytochemistry; LANT-6; Amacrine cell; Ganglion cell; Biochemistry (Eldred, W.D.) **424**, 361
- Ganglion cell; Monoclonal antibody;

Albino; Rabbit (Oyster, C.W.) **425**, 25

Age; Stress; Photoreceptor; Hormone (O'Steen, W.K.) **426**, 37

Amino acid; Aminobutyric acid; Glutamate; Mudpuppy; Retinal ganglion cell; Synaptic receptor (Arkin, M.S.) **426**, 142

Vasoactive intestinal polypeptide; Amacrine cell; Immunohistochemistry (Sagar, S.M.) **426**, 157

Kainic acid; Ganglion cell; Optic tectum; Trophic factor; Development; Horseradish peroxidase (Tung, N.N.) **435**, 153

Guanosine triphosphate (GTP)-binding protein; Islet-activating protein (pertussis toxin); Species difference; Immunohistochemistry (Terashima, T.) **436**, 384

Neurofilament; Phosphorylation; Optic nerve; Myelination (Sloan, K.E.) **437**, 365

Retina-muscle synapse

Retinal neuron; Vasoactive intestinal polypeptide; Cell culture; Cholinergic transmission (Fukuda, M.) **414**, 177

Retinal bipolar cell

Subpopulation; Monoclonal antibody; MAb 5A10; Cell-surface antigen; Frog; Vertebrate (Onoda, N.) **416**, 359

Retinal culture

Axonal transport; Bulk transport; Varicosity; Axon; Goldfish (Edmonds, B.) **406**, 288

Retinal ganglion cell

Amino acid; Aminobutyric acid; Glutamate; Mudpuppy; Retina; Synaptic receptor (Arkin, M.S.) **426**, 142

Retinal ganglion cell axon

Regeneration; Peripheral nerve transplant; Hamster (Cho, E.Y.P.) **419**, 369

Retinal neuron

Vasoactive intestinal polypeptide; Cell culture; Retina-muscle synapse; Cholinergic transmission (Fukuda, M.) **414**, 177

Retinal slip

Medial terminal nucleus; [¹⁴C]2-Deoxyglucose; Long-Evans rat (Biral, G.P.) **412**, 43

Retinal terminal

Bird; Dorsal lateral geniculate nucleus; Relay neuron; Wulst terminal; Synaptic glomerulus (Watanabe, M.) **401**, 279

Retinofugal projection

Optic tectum; Teleost; Visual system; Laminated structure; Retinotectal (von Bartheld, C.S.) **420**, 277

Retinohypothalamic tract

Suprachiasmatic nucleus; Hypothalamic slice; Excitatory amino acid; Kynurenate; Acetylcholine

(Cahill, G.M.) **410**, 125

Retinomotor movement

Cone; Melatonin; Light intensity (Pierce, M.E.) **405**, 400

Retinotectal

Optic tectum; Teleost; Retinofugal projection; Visual system; Laminated structure (von Bartheld, C.S.) **420**, 277

Retinotectal pathway

Growth-associated protein; Sensitive period; Activity-dependent sharpening; Axonal regeneration; Axonal transport; Goldfish (Benowitz, L.I.) **417**, 118

Retinotopic map

Preteectum; Dorsal lateral geniculate nucleus; Retina; Cat; Wheat germ agglutinin-horseradish peroxidase (WGA-HRP) (Kubota, T.) **421**, 30

Retraction

Neurite; Transection; Axotomy; Injury; Trauma; Calcium; Death (Lucas, J.H.) **425**, 384

Retractor bulbi

Fatigue; Motor unit; Lateral rectus; Split lateral rectus-retractor bulbi; Abducens (Gurahian, S.M.) **415**, 281

Retrofacial nucleus

Medulla; Respiratory neuron; Halothane anesthesia; Böttinger complex (Grelot, L.) **404**, 335

Retrograde

Axonal transport; Lipid droplet; *Aplysia* (Savage, M.J.) **406**, 215

Retrograde axonal transport

Substance P; Calcitonin gene-related peptide; Cholecystokinin; Eye; Sensory innervation; Trigeminal ganglion; Guinea pig; Cholera toxin B subunit; Immunohistochemistry (Kuwayama, Y.) **405**, 220

Retrograde cell degeneration

Neuronal hypertrophy; Substantia nigra; Globus pallidus (Pearson, R.C.A.) **400**, 127

Retrograde double labeling

Superior colliculus; Pons; Cuneiform area; Tectopontine (Redgrave, P.) **413**, 170

Ventral tegmental area; Occipital cortex; Forebrain; Substantia nigra pars compacta; Neuroanatomical differentiation; Horseradish peroxidase; Rat (Takada, M.) **418**, 27

Retrograde double-labeling technique

Basal ganglia; Primate; Subthalamopallidal projection; Subthalamostriatal projection; Subthalamomarginal projection; Axonal branching (Parent, A.) **436**, 296

Retrograde fiber tracing

Coexistence; 5-Hydroxytryptamine; Glutamic acid decarboxylase; Bulbosplinal projection; Raphe complex; Rat (Millhorn, D.E.)

410, 179

Retrograde fluorescent labeling

Subthalamic nucleus; Spinal cord; Globus pallidus; Extrapyramidal system; Basal ganglia; Rat (Takada, M.) **436**, 129

Retrograde labeling

Motor neuron pool; Lumbosacral plexus; Reflex (Ungar-Sargon, J.) **407**, 117

Glycine; Cochlear Nucleus; Immunocytochemistry; Double labeling (Wenthold, R.J.) **415**, 183

Bombesin; Stomach; Celiac ganglion; Immunohistochemistry (Hamaji, M.) **416**, 192

Spinal trigeminal nucleus, pars interpolaris; Horseradish peroxidase; Anterograde labeling; Axon terminal; XII nucleus; Hypoglossal motoneuron (Borke, R.C.) **422**, 235

Retrograde tracer

Cholera toxin; Nucleus raphe pallidus; Hypothalamus; Peptide; Cat (Luppi, P.-H.) **402**, 339

Enkephalin; Raphe magnus; Reticular formation; Spinal cord; Analgesia (Edwards, D.L.) **437**, 197

Retrograde transneuronal transfer

Herpes simplex virus (HSV); Herpes simplex virus replication in neurones; Astrocyte; Hypoglossal (XII) motoneuron; XII Premotor interneuron; Inferior olive; Bergmann glial cell (Ugolini, G.) **422**, 242

Retrograde transport

Gonadotropin releasing hormone; Amygdala; Interpeduncular nucleus; Immunohistochemistry (Jennes, L.) **404**, 339

Ferret; Visual cortex; Source of cholinergic input; Choline acetyltransferase immunohistochemistry (Henderson, Z.) **412**, 261

Substance P; Ventral medulla; Rhodamine-labeled latex microsphere; Nucleus reticularis paraventricular lateral; Intermediolateral cell column (Charlton, C.G.) **418**, 245

Choline acetyltransferase; Eninger-Westphal nucleus; Anteromedian nucleus; Oculomotor nucleus; Ciliary ganglion; Immunocytochemistry; Double labelling (Strassman, A.) **423**, 293

Reverse tolerance

Nicotine; Dopamine metabolism; Substantia nigra lesion; Caudate nucleus; Nucleus accumbens; Hypothermia; Stereotypy (Lapin, E.P.) **407**, 351

Reversibility

Blood-brain barrier; Mannitol; Triethylin (Inoue, T.) **414**, 309

Reward

Neurotensin; Self-injection; Ventral tegmental area (Glimcher, P.W.) **403**, 147

Lateral hypothalamus; Single neuron activity; Monkey; Electrophoresis; Dopamine; Noradrenaline; Operant feeding; Cue response (Nishino, H.) **405**, 56

Brain stimulation; Aversive footshock; Opiate receptor; In vivo autoradiography (Blake, M.J.) **435**, 181

Reward system

Conditioned place preference; Dopamine; Opioid reward; Microinjection; Morphine; Ventral tegmental area (Bozarth, M.A.) **414**, 77

Rhesus monkey

Gonadotropin releasing hormone (GnRH); Precursor to GnRH; Immunocytochemistry; Rat; Sheep; Hypothalamus; Gonadotropin; Protein processing (Silverman, A.-J.) **402**, 346

Somatosensory cortex; Vibration; Movement; Corollary discharge (Nelson, R.J.) **406**, 402

Separation; Benzodiazepine; Behavior; Endocrine response (Kalin, N.H.) **408**, 192

Protein phosphorylation; Protein kinase C; Neural plasticity; Visual processing; Two-dimensional electrophoresis (Nelson, R.B.) **416**, 387

Corticotrophin-releasing hormone; Diurnal rhythm; Cerebrospinal fluid; Adrenocorticotrophic hormone (ACTH) (Kalin, N.H.) **426**, 385

Rhodamine-labeled latex microsphere

Substance P; Ventral medulla; Retrograde transport; Nucleus reticularis paragigantocellular lateralis; Intermediolateral cell column (Charlton, C.G.) **418**, 245

Rhythm

α -Mannosidase; β -Galactosidase; Hexosaminidase; β -Glucuronidase; Acid phosphatase; β -Glucosidase; Pineal; Retina; Lysozyme (Vaughan, M.K.) **417**, 321

 θ Rhythm

Neuronal transmission; Trisynaptic circuit; Hippocampus; Evoked potential (Herreras, O.) **413**, 75

Hippocampus; Brain slice; Carbachol; Phase shifting (Konopacki, J.) **417**, 399

Rhythmic digastric activity

Rhythmic jaw movement; Midbrain; Decerebration (Tal, M.) **411**, 58

Rhythmic jaw movement

Rhythmic digastric activity; Midbrain; Decerebration (Tal, M.) **411**, 58

Rhythmic slow-wave activity

Hippocampus; Theta rhythm; Diazepam; Acetylcholine; Locomotion (Caudarella, M.) **435**, 202

Rhythmic unit

Medial septum; Hippocampus; Theta rhythm; Neuron pair; Cross-correlation (Alonso, A.) **413**, 135

Rhythmical slow activity

Ibotenic acid; Hippocampus; Septum; Active sleep; Quiet sleep; Cholinergic neuron; Electroencephalogram (Stewart, D.J.) **423**, 101

Ibotenic acid; Septum; Hippocampus; Cholinergic neuron; Urethane; Septohippocampal system; Serotonin (Stewart, D.J.) **423**, 88

Ribosome

Microtubule; Neuron; Neurite; Axon; Compartmentation (Baas, P.W.) **420**, 73

Rising phase

Neuromuscular junction; Miniature endplate current; Kinetic parameter; Non-linear regression; Estimation (Madsen, B.W.) **402**, 387

RNA

Wallerian degeneration; Mitosis; Endothelial cell; Ornithine decarboxylase; Protein synthesis (Oaklander, A.L.) **419**, 39

RNAase A

Spinal cord; Hippocampus; Glucocorticoid receptor; Corticosterone; Dexamethasone; DNA-cellulose binding (Moses, D.F.) **408**, 118

Ro 15-1788

Analgesia; Benzodiazepine, Anxiety; Antinociception; Rat (Morgan, M.M.) **415**, 367

Benzodiazepine antagonist; Diazepam; Benzodiazepine receptor; Epileptic chicken; Anticonvulsant activity (Pedder, S.C.J.) **424**, 139

Ro 15-4513

Alcohol; Barbiturate; Benzodiazepine; Bicuculline; Seizure threshold; Mouse (Nutt, D.J.) **413**, 193

Ro 5-4864

Benzodiazepine; Adenosine; Cerebral cortex; Neuron (Phillis, J.W.) **416**, 171

Rod photopigment

Pineal gland; *N*-Acetyltransferase activity; Albino rat (Bronstein, D.M.) **406**, 352

Rodent

Glutathione; Histochemistry; Brain; Mercury orange; Monkey (Slivka, A.) **409**, 275

Rostral ventrolateral medulla

Respiratory rhythm; Neuronal activity; Brainstem in vitro; Newborn rat (Onimaru, H.) **403**, 380

Neuropeptide Y; Blood pressure;

Bulbospinal pathway; C₁ adrenal-line-containing neuron; Rabbit (Pilowsky, P.M.) **420**, 380

Rotation

Dopamine; 6-Hydroxydopamine; Transplant; Limb use; Paw use (Dunnett, S.B.) **415**, 63

Amphetamine; 6-Hydroxydopamine; Dopamine; Serotonin; Striatum; Lateralization (Shapiro, R.M.) **426**, 323

Rotation selectivity

Prepectum; Binocularity; Visual motion detection; Salamander (Manteuffel, G.) **422**, 381

Rotational behavior

Weaver mutant mouse; Nigral transplant; Dopamine; Striatum; Functional recovery; Parkinson disease (Low, W.C.) **435**, 315

RU 24969

Serotonin; Receptor subtype; 8-Hydroxy-2-(di-*n*-propylamine)-tetralin (8-OH-DPAT); Mesulergine (Huang, J.C.) **436**, 173

Rubrospinal

Red nucleus; Single unit; Microelectrode; Motor control; Digit movement; Monkey (Kennedy, P.R.) **417**, 185

Rubrospinal neuron

Cerebellorubral transmission; Facilitation (Gorodnov, V.L.) **410**, 340

S**S54 protein**

Nervous system-specific protein; Dendrite; Synapse; Immunoelectron microscopy; Monoclonal antibody (Shirao, T.) **413**, 374

S-100

N-CAM; D2-protein; Synaptic remodelling; Red nucleus; D1-protein; D3-protein; Lesion (Jørgensen, O.S.) **405**, 39

Radioimmunoassay; Rat glioma cell; Secretion (Van Eldik, L.J.) **436**, 367

S-100 protein

Brain-specific protein; Kidney; Enzyme immunoassay; Purification; Isoprotein (Semba, R.) **401**, 9

Nerve cell membrane; ³⁶Cl⁻ permeability; γ -Aminobutyric acid (GABA) (Hydén, H.) **404**, 405

Saccade

Eye-head coordination; Gaze stabilization; Quick phase; Vestibular reflex (Dieringer, N.) **404**, 33

Superior colliculus; Eye movement; Burst neuron (Peck, C.K.) **408**, 329

Saccadic eye movement

Superior colliculus; Sensorimotor integration; Multisensory interaction; Premotor discharge (Peck, C.K.) **420**, 162

Saccharin

Gustation; Lateral hypothalamus; Intrinsic neuron; Ibotenic acid; Quinine; Rat (Ferssiwi, A.) **437**, 142

S-adenosylmethionine

Phospholipid methylation; In vivo; Phosphatidylcholine; Subcellular fraction (Lakher, M.) **419**, 131

Sagittal zone

Pseudocholinesterase; Cerebellum; Nodulus; Uvula; Purkinje cell; Bergmann glia (Gorenstein, C.) **418**, 68

Salamander

Olfactory bulb; Optical signal; Odor response (Kauer, J.S.) **418**, 255

Pretectum; Binocularity; Visual motion detection; Rotation selectivity (Manteuffel, G.) **422**, 381

Salivary gland

Horseshoe peroxidase; Otic ganglion; Trigeminal nerve; Parasympathetic system; Guinea pig (Segade, L.A.G.) **411**, 386

Von Ebner's gland; Autonomic nervous system; Tongue; Circumvallate papilla; Taste (Gurkan, S.) **419**, 287

Salivatory nucleus

Preganglionic parasympathetic neuron; Dorsal motor nucleus; Morphology; Distribution; Cobaltic lysine; Japanese toad (Oka, Y.) **400**, 389

Salmon

Neurotransmitter; Catecholamine; Aging (Ebbesson, S.O.E.) **405**, 175

Salsolinol

Catecholamine; Ethanol; Acetaldehyde; Rat brain; Gas chromatography-mass spectrometry (GC/MS) (Matsubara, K.) **413**, 336

Salt gland

Angiotensin II; Receptor autoradiography; Hypothalamus; Subfornical organ; Receptor up-regulation; Pekin duck (Gerstberger, R.) **400**, 165

Saphenous

Sciatic; Denervation; 4-Aminopyridine; γ -Aminobutyric acid (GABA); Glycine; Spinal cord; Sprouting (Markus, H.) **416**, 315

Sar¹-angiotensin II

Angiotensin II; Angiotensin III; Brain; Ionophoresis; Amastatin; Bestatin (Harding, J.W.) **424**, 299

Satiety

Cholecystokinin; Receptor; Vagus (Moran, T.H.) **415**, 149

Dopamine metabolite; Serotonin; Feeding (Chance, W.T.) **416**, 228

Hypothalamus; Cholecystokinin release; Primate; Push-pull perfusion (Schick, R.R.) **418**, 20

Scent-marking behavior

Female hamster; Dual estradiol implant; Bilateral estradiol implant; Agonistic behavior; Lordosis; Medial preoptic area; Ventromedial hypothalamus (Takahashi, L.K.) **425**, 337

SCH 23390

D₁ receptor; Dopamine receptor; Ibotenic acid; 6-Hydroxydopamine; Substantia nigra; Autoradiography (Filloux, F.M.) **408**, 205

Striatonigral neuron; D₁ receptor; Substantia nigra; Neostriatum; Dopamine; Quinolinic acid; [¹²⁵I]SCH 23982; Denervation (Altar, C.A.) **410**, 1

Substance P; Dopamine receptor subtype; Sulpiride; Selective regulation; Striatum; Substantia nigra; Progabide (Oblin, A.) **421**, 387

Neurotensin; Methamphetamine; Dopamine; Sulpiride (Letter, A.A.) **422**, 200

Dopamine; Opioid; Morphine; U-69593; Reinforcement; Motivation; Place conditioning (Shippenberg, T.S.) **436**, 169

[³H]SCH 23390 binding

Light-dark adaptation; Chronic SCH 23390; D₁ dopamine receptor; Dopamine-sensitive adenylate cyclase; Retina (Porceddu, M.L.) **424**, 264

[¹²⁵I]SCH 23982

D-1 dopamine receptor; Substantia nigra; Caudate nucleus (Yamamoto, T.) **407**, 398

Striatonigral neuron; D₁ receptor; Substantia nigra; Neostriatum; Dopamine; Quinolinic acid; SCH 23390; Denervation (Altar, C.A.) **410**, 1

Axonal transport; Dopamine D₁ receptor; Quantitative autoradiography; Striatonigral pathway (Aiso, M.) **426**, 392

Schizophrenia

Antipsychotic drug; Dopamine; Dopamine neuron; Ventral tegmental area; Substantia nigra (Hand, T.H.) **415**, 257

Schwann cell

Mitosis; Remyelination; Central nervous system (Harrison, B.M.) **409**, 163

Guillain-Barré syndrome; Polyradiculoneuritis; Peripheral nerve disease; Myelin sheath; Tissue culture (Birchem, R.) **421**, 173

Monoclonal antibody; Cyclic AMP; Surface membrane molecule; Myelination (Rostami, A.) **425**, 205

Monoclonal antibody; 2':3'-Cyclic nucleotide 3'-phosphodiesterase (CNase); Oligodendrocyte; Cell marker enzyme; Wolfgram protein fraction (Sprinkle, T.J.) **426**, 349

Nerve growth factor (NGF); Nerve growth factor receptor (Yasuda, T.) **436**, 113

Schwann cell line

Simian virus 40 (SV40) transformation; Myelin-protein; P₀ protein; P₀ mRNA; Myelin-associated glycoprotein; 2':3'-Cyclic nucleotide 3'-phosphodiesterase; Galactocerebroside; Sulfatide (Chen, G.L.) **414**, 35

Sciatic

Saphenous; Denervation; 4-Aminopyridine; γ -Aminobutyric acid (GABA); Glycine; Spinal cord; Sprouting (Markus, H.) **416**, 315

Sciatic nerve

Axonal transport; Node of Ranvier; Glycoprotein; Optic nerve (Armstrong, R.) **412**, 196

Electric field; Electrotherapy; Motor nerve; Regeneration; Nerve growth; Nerve lesion; Rat (McDevitt, L.) **416**, 308

Ranvier's node; Wallerian degeneration; Frog; Freeze-fracturing; Myelin; Demyelination; Axolemma (Ishise, J.) **418**, 85

Blood-nerve barrier; Endoneurial capillary; Ionic permeability; Excitability (Weerasuriya, A.) **419**, 188

Scintillation spectrometry

Methylmercury; Axonal transport; Protein synthesis; Rat; Autoradiography; [³H]Proline; Methylmercury 203 (Aschner, M.) **401**, 132

Scopolamine

Pirenzepine; Carbamylcholine; Autoradiography; Quinuclidinyl benzilate; Muscarinic receptor (Messer Jr., W.S.) **407**, 27

Pirenzepine; Representational memory; M₁ muscarinic receptor; Tolerance; T-maze (Messer Jr., W.S.) **407**, 37

Pirenzepine; Muscarinic receptor; Tolerance; Quinuclidinyl benzilate; Autoradiography (Messer Jr., W.S.) **407**, 46

Pilocarpine; Methscopolamine; Linear sweep voltammetry (Mueller, K.) **408**, 313

Kindling; Afterdischarge; Hippocampus; Entorhinal cortex; Cholinergic input; Paroxysmal fast wave; Medial septum (Leung, L.-W.S.) **419**, 173

- 2-Deoxyglucose; Autoradiography; Hippocampus; Cerebral cortex; Thalamus; Piracetam; Rat (Piercey, M.F.) **424**, 1
- ³HScopolamine**
Muscarinic cholinergic receptor; Cultured caudate putamen nucleus; Binding assay; Excitatory postsynaptic current; Electrophysiological recording (Usami, K.) **420**, 167
- Scrapie-related protein mRNA**
Development; Transcription rate (Lieberburg, I.) **417**, 363
- Scrotal skin temperature**
Caudate-putamen; Anesthetized rat; Bursting activity; Temperature information (Taylor, D.C.M.) **419**, 352
- Seasonal cycle**
Photoperiod; Brain size; Body mass; Hormone; Sex difference (Dark, J.) **409**, 302
- Second-order single unit**
Vestibular evoked response (Elidan, J.) **423**, 385
- Secretin**
Brain-gut peptide; Vasoactive intestinal peptide; Peptide histidine soleucine amide; Preoptic area; Luteinizing hormone; Prolactin (Kimura, F.) **410**, 315
- Secretion**
Radioimmunoassay; Rat glioma cell; 6-100 (Van Eldik, L.J.) **436**, 367
- Secretory granule**
Pituitary gland; Neurohypophysis; Digital imaging technique; Neurosecretion; Exocytosis; Stimulation-secretion coupling; *Xenopus* (Terakawa, S.) **435**, 380
- Segregated synaptic input**
Mauthner cell; Visual input; Startle response; Mauthner cell ventral dendrite (Zottoli, S.J.) **401**, 113
- Seizure**
Epilepsy; Emotion; Interictal behavior; Defence reaction; Kainic acid; Aggression; Temporal lobe (Griffith, N.) **400**, 360
- Gerbil; Enkephalin; Dynorphin (Lee, R.J.) **401**, 353
- Calcium; Calcium channel; Calcium channel agonist; Calcium channel inhibitor; Anticonvulsant (Shelton, R.C.) **402**, 399
- Dynorphin; Kindling; Substantia nigra (Bonhaus, D.W.) **405**, 358
- Kindling; Locus coeruleus; Norepinephrine (Bonhaus, D.W.) **407**, 102
- Epilepsy; Interictal; Anticonvulsant; Baclofen; Inhibition; Magnesium (Swartzwelder, H.S.) **410**, 362
- Phosphatidylinositol; Free fatty acid; Triacylglycerol; Diacylglycerol; Rat (Yoshida, S.) **412**, 114
- Cysteamine; Kindling; Myoclonus; Midazolam; Long-term inhibition (Cottrell, G.A.) **412**, 161
- Intracellular calcium concentration; Bursting activity; Calcium ionophore; Snail neuron (Sugaya, E.) **416**, 183
- Brain oxygen supply; Status epilepticus; Pulmonary edema; Cerebral hypoxia; Cytochrome oxidase (cytochrome a_{a3}) (Kreisman, N.R.) **417**, 335
- Mast cell-degranulating peptide (MCD); Behavior; Electroencephalography; Binding; Central nervous system; Hippocampus; Theta rhythm (Bidard, J.-N.) **418**, 235
- Electroconvulsive shock; Hippocampus; Deoxyglucose; Glucose utilization (Orzi, F.) **423**, 144
- Benzodiazepine; Clonazepam; Substantia nigra; Kindling; Anticonvulsant (King, P.H.) **423**, 261
- Seizure activity**
Molecular probe; Spreading depression; Anoxia; Mitochondrion; Bicuculline; Picrotoxin (Evans, D.) **409**, 350
- Seizure threshold**
Chronic diazepam; γ -Aminobutyric acid (GABA)-ergic subsensitivity; Tolerance; Bicuculline (Gonsalves, S.F.) **405**, 94
- Alcohol; Barbiturate; Benzodiazepine; Ro 15-4513; Bicuculline; Mouse (Nutt, D.J.) **413**, 193
- Seizure-like discharge**
Neocortex; Epilepsy; N-Methyl-D-aspartate (Avoli, M.) **417**, 199
- Selective attention**
Inferotemporal neuron; Auditory signal; Visual cognition; Monkey (Iwai, E.) **410**, 121
- Selective degeneration**
Capsaicin; Primary sensory afferent; Urinary bladder; Spinal cord; Horseradish peroxidase (Jancsó, G.) **418**, 371
- Selective ligand**
Opioid receptor; δ -Enkephalin analogue; Discriminative binding property; Parkinson's disease; Human brain (Delay-Goyet, P.) **414**, 8
- Selective regulation**
Substance P; Dopamine receptor subtype; Sulpiride; SCH 23390; Striatum; Substantia nigra; Progabide (Oblin, A.) **421**, 387
- Selectively bred mouse**
Neurotensin; Neuropeptide; β -Endorphin; Ethanol; Anesthesia; Hypothermia (Erwin, V.G.) **400**, 80
- Self-injection**
Neurotensin; Reward; Ventral tegmental area (Glimcher, P.W.) **403**, 147
- Self-stimulation**
Forebrain ablation; Lateral hypothalamus; Brain stimulation reward (Colle, L.M.) **407**, 285
- Nucleus accumbens; Genetic; Stress (Zacharko, R.M.) **426**, 164
- Preoptic area; Lateral hypothalamus; Reinforcement; Lesion; Lateralized effect (Huston, J.P.) **436**, 1
- Semicircular canal**
Vestibulo-ocular reflex; Optokinetic reflex; Otolith; Rabbit; Linear acceleration; Angular acceleration; Eye movement (Barmack, N.H.) **424**, 89
- Extraocular muscle; Gaze direction; Spatial geometry; Rat (Daunicht, W.J.) **435**, 48
- Otolith; Off-vertical-axis rotation; Vestibulo-ocular reflex; Optokinetic nystagmus; Cat; Velocity store (Harris, L.R.) **437**, 393
- Semistarvation**
Norepinephrine; Tyrosine hydroxylase; Mediobasal hypothalamus; Acute starvation (Philipp, E.) **413**, 53
- Senescence**
Dihydropyridine; Hippocampus; Frontal cerebral cortex; Spontaneously hypertensive rat (SHR); PN 200-110 (Huguet, F.) **412**, 125
- Senile dementia**
Aging; Alzheimer's disease; Dentate gyrus; Dendrite; Human; Hippocampus (Flood, D.G.) **402**, 205
- Alzheimer's disease; Dendrite; Spine density; Dentate gyrus; Granule cell; Golgi-rapid study; Morphometry; Human brain (De Ruiter, J.P.) **402**, 217
- Aging; Alzheimer's disease; CA₂₋₃; Dendrite; Human; Hippocampus (Flood, D.G.) **409**, 88
- Alzheimer's disease; Neostriatum; Large neuron; Morphometry (Oyanagi, K.) **411**, 205
- Parvalbumin; Immunocytochemistry; Cerebral cortex; Postmortem brain; Alzheimer's disease (Arai, H.) **418**, 164
- Senile plaque**
Acetylcholinesterase staining; Alzheimer's disease; Substantia innominata; Cortex (Tago, H.) **406**, 363
- Sensitive period**
Growth-associated protein; Activity-dependent sharpening; Axonal regeneration; Axonal transport; Goldfish; Retinotectal pathway (Benowitz, L.I.) **417**, 118
- Sensitivity**
Prednisolone; γ -Aminobutyric acid receptor; Dorsal root ganglion; Bullfrog (Ariyoshi, M.) **435**, 241

Sensitization

Ventral tegmental area; Nucleus accumbens; Morphine; Enkephalin; μ -Opioid receptor; Locomotor activity; Dopamine (Vezina, P.) **417**, 51

Lateral cervical nucleus; Thermal stimulation; Spinocervicothalamic pathway; Nociception (Kajander, K.C.) **436**, 390

Sensorimotor integration

Superior colliculus; Multisensory interaction; Premotor discharge; Saccadic eye movement (Peck, C.K.) **420**, 162

Sensory adaptation

Somatosensory cortex; Periodontal mechanosensitive neuron; Directional selectivity; Interaction of afferent inputs (Taira, K.) **409**, 52

Sensory axon

Collateral sprouting; Hairy skin; Dermotome; Spinal nerve lesion; Wheat germ agglutinin-horseradish peroxidase conjugate; Anterograde transport; Microinjection (Kinnman, E.) **414**, 385

Sensory coding

Taste; Toxicity; LD₅₀; Nucleus tractus solitarius; Electrophysiology; Multidimensional scaling (Scott, T.R.) **414**, 197

Sensory cortex

Collateralization; Corticostriate neuron; Motor cortex; Double labelling (McGeorge, A.J.) **423**, 318

Thalamus; Nucleus ventralis posterolateralis (VPL); Nucleus ventralis lateralis (VL); Motor deficit (Bornscheigl, M.) **437**, 121

Motor cortex; Association fiber; Synapse formation; Axonal branching (Ichikawa, M.) **437**, 131

Sensory deprivation

Cytochrome oxidase; Glutamic acid decarboxylase (GAD); Thalamus; Reticular nucleus (Land, P.W.) **425**, 178

Sensory feedback

Fictive locomotion; Spinal cord; Edge cell; Lamprey (Alford, S.) **409**, 139

Sensory fiber

Calcitonin gene-related peptide fiber; Sympathetic neuron; Synaptic contact; Immunoelectron microscopy (Lee, Y.) **407**, 149

Sensory innervation

Substance P; Calcitonin gene-related peptide; Cholecystokinin; Eye; Trigeminal ganglion; Guinea pig; Cholera toxin B subunit; Retrograde axonal transport; Immunohistochemistry (Kuwayama, Y.) **405**, 220

External genitalia; Internal genitalia; Female rat (Peters, L.C.) **408**, 199

Sensory map

Cytochrome oxidase; Succinate dehydrogenase; Rat; Mouse; Neocortex (Wallace, M.N.) **418**, 178

Sensory nerve fiber

Sensory receptor; Vagus nerve; Lower esophageal sphincter; Wheat germ agglutinin-horseradish peroxidase; Axonal anterograde transport; Cat (Clerc, N.) **424**, 216

Sensory nerve terminal

Capsaicin; Rat urinary bladder; Substance P; Neuropeptide (depletion from sensory nerves); Capsaicin desensitization (Maggi, C.A.) **436**, 402

Sensory neuron

Petrosal ganglion; Glossopharyngeal nerve; Membrane property (Morales, A.) **401**, 340

Potassium channel; Modulation; Serotonin; *Aplysia* (Pollock, J.D.) **410**, 367

Axonal regeneration; Spinal root; Transganglionic; Enhancement (Richardson, P.M.) **411**, 406

Calcitonin gene-related peptide; Substance P; Somatostatin; Skin; Human; Immunofluorescence (Gibbins, I.L.) **414**, 143

Rat; Micturition reflex; Somato-vesical reflex; Vesico-vesical reflex; Urethane; Bladder voiding; Sensory-efferent function (Maggi, C.A.) **415**, 1

Sensory neurone

Choline acetyltransferase; Immunohistochemistry; Locust; Acetylcholine (Lutz, E.M.) **407**, 173

Sensory physiology

Angiotensin II; Respiratory neurone; Nucleus of the tractus solitarius; Brainstem; Respiration (Sessle, B.J.) **407**, 163

Sensory receptor

Sensory nerve fiber; Vagus nerve; Lower esophageal sphincter; Wheat germ agglutinin-horseradish peroxidase; Axonal anterograde transport; Cat (Clerc, N.) **424**, 216

Sensory system

REM sleep; Somatic stimulus (Arankowsky-Sandoval, G.) **400**, 155

Rat; Spinal cord; Antinociception; Morphine; Clonidine; Potentiation; Motor system (Wilcox, G.L.) **405**, 84

Sensory-efferent function

Rat; Micturition reflex; Somato-vesical reflex; Vesico-vesical reflex; Urethane; Bladder voiding; Sensory neuron (Maggi, C.A.) **415**, 1

Separation

Benzodiazepine; Behavior; Endocrine response; Rhesus monkey (Kalin, N.H.) **408**, 192

Separation anxiety

Separation distress; α_2 -Adrenergic receptor; Isolation call; Squirrel monkey; Clonidine; Yohimbine (Harris, J.C.) **410**, 353

Separation distress

Separation anxiety; α_2 -Adrenergic receptor; Isolation call; Squirrel monkey; Clonidine; Yohimbine (Harris, J.C.) **410**, 353

Septal explant culture

Cholinergic development; Neurotrophic factor; Nerve growth factor (Bostwick, J.R.) **422**, 92

Septal lesion

Hippocampus; Acetylcholine; Choline acetyltransferase (ChAT); Monoclonal antibody; Immunocytochemistry; Morphometry; Rat (Matthews, D.A.) **402**, 30

Septal nucleus

Cholinergic input; Posterior cingulate cortex; Basal forebrain neuron; Theta rhythm; EEG-spike; Pharmacology (Borst, J.G.G.) **407**, 81

Autoradiography; Adenosine receptor; Cerebral ischemia; Hippocampus; Muscarinic receptor; Striatum (Onodera, H.) **415**, 309

Septohippocampal pathway

Rat; Aging; Cholinergic neuron; Septum; Single unit recording (Lamour, Y.) **416**, 277

Rat; Axonal terminal excitability; Antidromic stimulation; Microiontophoresis; γ -Aminobutyric acid (GABA); Glutamate; Impulse flow; Autoreceptor (Dutar, P.) **418**, 98

Septohippocampal system

Ibotenic acid; Septum; Hippocampus; Rhythmical slow activity; Cholinergic neuron; Urethane; Serotonin (Stewart, D.J.) **423**, 88

Aging; Stress; Cholinergic neuron; Pyramidal neuron; Rat strain (Gilad, G.M.) **436**, 311

Septum

Regeneration; Embryonic transplant; θ -Activity; Electroencephalogram; Unit activity; Hippocampus; Locus coeruleus; Behavior (Buzsáki, G.) **400**, 334

Choline; Acetylcholine; Cholinergic neuron; Slice culture; Hemicholinium-3; High affinity choline uptake (Keller, F.) **405**, 305

Dopamine; Noradrenaline; Ventral tegmental area; Frontal cortex; Attention; Conditioned blocking; Active avoidance (Oades, R.D.) **406**, 136

Hippocampus; γ -Aminobutyric acid; Biotinylated wheat germ agglutinin; Immunocytochemistry (Shinoda, K.) **409**, 181

Rat; Aging; Cholinergic neuron; Septo-hippocampal pathway; Single unit recording (Lamour, Y.) **416**, 277

Ibotenic acid; Hippocampus; Rhythmical slow activity; Cholinergic neuron; Urethane; Septohippocampal system; Serotonin (Stewart, D.J.) **423**, 88

Ibotenic acid; Hippocampus; Active sleep; Quiet sleep; Rhythmical slow activity; Cholinergic neuron; Electroencephalogram (Stewart, D.J.) **423**, 101

Septum, dorsolateral

Passive avoidance behavior; Anti-vasopressin serum; Noradrenaline utilization; Hippocampus, dorsal; Hippocampus, ventral; Caudate nucleus (Veldhuis, H.D.) **425**, 167

Sequential dependencies

Dentate gyrus; Hippocampus; Single unit recording (Foster, T.C.) **408**, 86

Serotonergic

Inositol phosphate metabolism; Receptor; Muscarinic; Retina (Cutcliffe, N.) **421**, 95

Serotonergic denervation

Serotonin receptor; Phosphoinositide hydrolysis; Choroid plexus; Cerebrospinal fluid; 5-HT_{1c} receptor (Conn, P.J.) **400**, 396

Serotonergic descending inhibitory system

Dorsal horn neuron; C-fiber activation; Cinanserin; Methysergide; Nociception (Rivot, J.P.) **403**, 142

Serotonin

Ascorbic acid; Dopamine; Methamphetamine; Substance P (Matsuda, L.A.) **400**, 176

Tumbling; Behavior mechanism; Amitriptyline; Pigeon behavior (Smith, G.N.) **400**, 399

Alzheimer's disease; Neocortex; 5-Hydroxyindoleacetic acid; Noradrenaline; 3-Methoxy-4-hydroxyphenylglycol; Dopamine; Dihydroxyphenylacetic acid; Homovanillic acid; Choline acetyltransferase (Palmer, A.M.) **401**, 231

Lamina X; Enkephalin; Substance P; True blue; Hemisection; Dorsal rhizotomy (Nahin, R.L.) **401**, 292

Substance P; Neuromedin K; Release; Cerebral cortex; Spantide (Solti, M.) **401**, 377

5,6-Dihydroxytryptamine; Methamphetamine; Neurotoxicity; Hippocampus; Psychomotor stimulant (Commins, D.L.) **403**, 7

Kindling; Experimental epilepsy; Amygdala; Noradrenaline; Dopamine (Lewis, J.) **403**, 205

Area postrema; Enkephalin; γ -Aminobutyric acid (GABA); Guanethidine; Immunohistochemistry; Neurotensin; Neurotoxin; Rat (Newton, B.W.) **404**, 151

Growth hormone; Medial basal hypothalamus; Preoptic/anterior hypothalamic area (Willoughby, J.O.) **404**, 319

Monoamine; Catecholamine; *Hermisenda*; Gastropod (Croll, R.P.) **405**, 337

Formaldehyde; Antibody; *Octopus vulgaris* brain; Chromatophore lobe; Palliovisceral lobe; Peroxidase-antiperoxidase (PAP) method (Uemura, T.) **406**, 73

Antinociception; Nucleus raphe magnus; Norepinephrine; Spinal cord; Superfusion; Neurotransmitter release (Sagen, J.) **406**, 246

Aldehyde dehydrogenase; Anesthesia; Barbiturate; Disulfiram; Hexobarbital; Noradrenaline; Sleeping-time (Nilsson, G.E.) **409**, 265

Hippocampus; G protein; Population spike; Adenylate cyclase; Pertussis toxin (Clarke, W.P.) **410**, 357

Potassium channel; Modulation; Sensory neuron; *Aplysia* (Pollock, J.D.) **410**, 367

N-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP); Mouse; Striatum; High-performance liquid chromatography (HPLC); Immunohistochemistry (Hara, K.) **410**, 371

Dorsal raphe; In vivo voltammetry; Dopamine; Kainic acid (De Simoni, M.G.) **411**, 81

Hippocampus; Regeneration; Supersensitivity; Fimbria; Fornix (Lombardi, G.) **411**, 275

Area postrema; Noradrenaline; Parabrachial area; Tyrosine hydroxylase (Miceli, M.O.) **412**, 381

Intrahypothalamic; Cimetidine; Prolactin; Luteinizing hormone (LH) (Kertesz, E.) **413**, 10

Atropine; Electrocorticogram; Hippocampal theta wave; Phencyclidine; Psychotomimetic opioid; Sigma receptor (Vanderwolf, C.H.) **414**, 109

Intracellular voltammetry; Metacerebral cell; *Aplysia*; Platinum electrode (Meulemans, A.) **414**, 158

Thyrotropin-releasing hormone; Substance P; Coexistence; Immunohistochemistry; Intermediolateral cell column; Preganglionic; Sympathetic outflow (Appel, N.M.) **415**, 137

Mouse; Pineal; Melatonin;

N-Acetyltransferase; Hydroxindole-*O*-methyltransferase; *N*-Acetylserotonin (Ebihara, S.) **416**, 136

Dopamine metabolite; Feeding; Satiety (Chance, W.T.) **416**, 228

Raphe obscurus; Raphe pallidus; Nucleus ambiguus; Phrenic motor nucleus (Holtman Jr., J.R.) **417**, 12

Lateral septum; In vitro intracellular recording; 5-HT_{1a} agonist (Joëls, M.) **417**, 99

Medial basal hypothalamus; Midbrain; Pons; Immunohistochemistry; Fast blue; Fluoro-gold (Willoughby, J.O.) **418**, 170

Interpeduncular nucleus; Fasciculus retroflexus; Substance P; Choline acetyltransferase; Cytochrome oxidase; Bodian stain; Plasticity; Development (Barr, G.A.) **418**, 301

Aging; Hippocampal dentate granule cell; Afterhyperpolarization (Baskys, A.) **419**, 112

Catecholamine; Uric acid; High-pressure liquid chromatography; Electrochemical detection; Rat spinal cord (Basbaum, A.I.) **419**, 229

5,6-Dihydroxytryptamine; Para-chloroamphetamine; Neurotoxicity; Hippocampus; Somatosensory cortex; Striatum (Commins, D.L.) **419**, 253

Cerebellar glomerulus; γ -Aminobutyric acid; Glycine; Choline; Acetylcholine (Morales, E.) **420**, 11

Posterior pituitary; Hypothalamus; Prolactin; Ether (Murai, I.) **420**, 227

5-HT₂ receptor; Head shaking behavior; Antidepressant drug (Lucki, I.) **420**, 403

Sertraline; β -Adrenergic; [³H]Dihydroalprenolol; In vitro receptor autoradiography (Byerley, W.F.) **421**, 377

Ibotenic acid; Septum; Hippocampus; Rhythmical slow activity; Cholinergic neuron; Urethane; Septohippocampal system (Stewart, D.J.) **423**, 88

Cortical neuron; Intracellular; 5-HT₁; 5-HT₂; Depolarization; Hyperpolarization (Davies, M.F.) **423**, 347

Neostriatum; Quantified distribution; Immunohistochemistry; Radioautography (Soghomonian, J.-J.) **425**, 85

Orchidectomy; Testosterone; Catecholamine; Hypothalamus; Cerebral cortex; Spinal cord (Battaner, E.) **425**, 391

5,7-Dihydroxytryptamine; Estrogen receptor; Hypothalamus; Lordosis;

Progesterin receptor (Luine, V.N.)

426, 47

Pain; Tonic; Morphine; Microinjection; Analgesia (Inase, M.) **426**, 205

Analgesia; Nociception; Raphe nucleus; *p*-Chlorophenylalanine; Dorsal spinal cord; Motoneuron; Electrochemical detection (Steinman, J.L.) **426**, 297

Raphe nucleus; Dorsal spinal cord; Ventral spinal cord; Image analysis (Carlton, S.M.) **426**, 310

Rotation; Amphetamine; 6-Hydroxydopamine; Dopamine; Striatum; Lateralization (Shapiro, R.M.) **426**, 323

Electroencephalographic sleep; Rapid-eye-movement (REM) sleep; Non-rapid-eye-movement sleep; Fluoxetine; Trifluoromethylphenylpiperazine (TFMPP); Rat (Pastel, R.H.) **436**, 92

Receptor subtype; 8-Hydroxy-2-(di-*n*-propylamine)-tetralin (8-OH-DPAT); RU 24969; Mesulergine (Huang, J.C.) **436**, 173

Glucose utilization; Autoradiography; 2-Deoxyglucose; 5-HT_{1A} receptor; Ipsapirone; Hippocampus; Rat (Wree, A.) **436**, 283

Serotonin *N*-acetyltransferase
Retina; Dopamine; Melatonin; Cyclic nucleotide phosphodiesterase (Iuvone, P.M.) **418**, 314

Serotonin inhibition
Dorsal lateral geniculate nucleus; Dorsal raphe nucleus; 5,7-Dihydroxytryptamine (Marks, G.A.) **418**, 76

Serotonin metabolism
Tryptophan; In vivo voltammetry; High-pressure liquid chromatography (HPLC) (De Simoni, M.G.) **411**, 89

Serotonin receptor
Phosphoinositide hydrolysis; Choroid plexus; Serotonergic denervation; Cerebrospinal fluid; 5-HT-1c receptor (Conn, P.J.) **400**, 396

Brain; Na⁺, K⁺-ATPase; Regulation (Hernández R., J.) **408**, 399

Serotonin receptor subtype
Human cortex (Todd, R.D.) **400**, 247

Serotonin release
Serotonin uptake; Monoamine oxidase activity; Hypothalamus; Aging; Monoamine balance (Navarro, H.A.) **421**, 291

Serotonin uptake
Imipramine binding; Estradiol; Tricyclic antidepressant; Gonadal hormone; Platelet (Rehavi, M.) **410**, 135

Serotonin release; Monoamine oxidase activity; Hypothalamus; Aging; Monoamine balance (Navarro, H.A.)

421, 291

Serotonin-like immunoreactivity
Olfactory interneuron; Crayfish (Sandeman, R.E.) **403**, 371

Serotonin-mediated behavior
Serotonin₁ receptor; Serotonin₂ receptor; Ketanserin; 5,7-Dihydroxytryptamine (5,7-DHT); Quantitative autoradiography (Fischette, C.T.) **421**, 263

Serotonin₁ receptor
Serotonin₁ receptor; Ketanserin; Serotonin-mediated behavior; 5,7-Dihydroxytryptamine (5,7-DHT); Quantitative autoradiography (Fischette, C.T.) **421**, 263

Serotonin₂ receptor
Serotonin₂ receptor; Ketanserin; Serotonin-mediated behavior; 5,7-Dihydroxytryptamine (5,7-DHT); Quantitative autoradiography (Fischette, C.T.) **421**, 263

Sertraline
Serotonin; β -Adrenergic; [³H]Dihydroalprenolol; In vitro receptor autoradiography (Byerley, W.F.) **421**, 377

Set point
Fever; Arginine vasopressin; Vasopressin; Indomethacin; Thermoregulation (Wilkinson, M.F.) **415**, 275

Sex
Activity; Stress-induced analgesia; Immobilization; Opioid analgesia; Naloxone; ICI 154, 129; Deer mice; *Peromyscus maniculatus*; Genetic; Island-Mainland population (Kavaliers, M.) **425**, 49

Sex difference
Photoperiod; Seasonal cycle; Brain size; Body mass; Hormone (Dark, J.) **409**, 302

Medial preoptic area; Steroid autoradiography (Jacobson, C.D.) **414**, 349

Tuberoinfundibular neuron; Dopamine; Dihydroxyphenylacetic acid (DOPAC); Median eminence; Prolactin; Stress (Lookingland, K.J.) **419**, 303

Substance P; Bed nucleus of the stria terminalis; Immunocytochemistry (Malsbury, C.W.) **420**, 365

Opiate receptor; Golden hamster; *Mesocricetus auratus*; Naloxone; Hypothalamus; Brain differentiation; Sexual dimorphism; [D-Ala², D-Leu⁵]Enkephalin binding; Sexually dimorphic nucleus (Ostrowski, N.L.) **421**, 1

Sex steroid
Progesterone; Cerebellar Purkinje cell; γ -Aminobutyric acid (GABA); Glutamate; Neuromodulation; Neuronal responsiveness; Anxiolytic

action (Smith, S.S.) **400**, 353

Sex-difference
Estradiol; Arcuate nucleus; Hypothalamus; Plasma membrane; Neuronal membrane; Synapse; Freeze-fracture (Olmos, G.) **425**, 57

Sex-linked recessive gene
Glaucoma; Buphtalmos; Albino quail (Weidner, C.) **419**, 357

Sexual behavior
Corticotropin releasing factor; Naloxone; Third cerebral ventricle; Male rat (Sirinathsinghji, D.J.S.) **407**, 185

N-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP); Pargyline; MPTP analogue; Third cerebral ventricle; Male rat (Sirinathsinghji, D.J.S.) **407**, 364

Cerebrospinal fluid; Oxytocin; Paraventricular nucleus; Postejaculatory interval (Hughes, A.M.) **414**, 133

Dihydrotestosterone; Androgen metabolism; Japanese quail (Deviche, P.) **421**, 105

Sexual differentiation
Medial preoptic area; Ventral noradrenergic tract; Luteinizing hormone; Testosterone; Naloxone; Androgenization; Rat (Grossmann, R.) **415**, 205

Hypothalamus; Medial preoptic nucleus; Sexual dimorphism; Testosterone; Quail (Panzica, G.C.) **416**, 59

Medial preoptic area; Mediobasal hypothalamus; Testosterone; β -Endorphin; Neuropeptide Y; Neurotensin; Opioid receptor; Rat (Diez-Guerra, F.J.) **424**, 225

Sexual dimorphism
Hypothalamus; Immunohistochemistry; Medial preoptic area; Preoptic region (Simerly, R.B.) **400**, 11

Oxytocin; Arginine-vasopressin; Noradrenaline; Ventral noradrenergic bundle; Stress (Carter, D.A.) **406**, 313

Hypothalamus; Medial preoptic nucleus; Sexual differentiation; Testosterone; Quail (Panzica, G.C.) **416**, 59

Sex difference; Opiate receptor; Golden hamster; *Mesocricetus auratus*; Naloxone; Hypothalamus; Brain differentiation; [D-Ala², D-Leu⁵]Enkephalin binding; Sexually dimorphic nucleus (Ostrowski, N.L.) **421**, 1

Auditory pathway; Brainstem; Guinea pig; Immunocytochemistry; Neuropeptide; Vasopressin (Dubois-Dauphin, M.) **437**, 151

Sexually dimorphic nucleus

Sex difference; Opiate receptor;
Golden hamster; *Mesocricetus auratus*;
Naloxone; Hypothalamus; Brain
differentiation; Sexual dimorphism;
[D-Ala², D-Leu⁵]Enkephalin binding
Ostrowski, N.L.) **421**, 1

Shaking pup

Myelin-deficient rat; Mosaicism; Optic
nerve; Spinal cord (Duncan, I.D.)
402, 168

Sham-fighting behavior

Dopamine; γ -Aminobutyric acid
(GABA); Apomorphine; Basal
ganglion; Supersensitivity (Sivam, S.P.)
412, 29

Shared antigen

Demyelination; Reactive astrocyte;
Glialfibrillary acidic protein antibody;
Galactocerebroside antibody; Optic
nerve (Carroll, W.M.) **411**, 364

Sharp wave

Long-term potentiation; Hippocampus;
Population burst; Memory; Model
Buzsáki, G.) **435**, 331

Sheep

Gonadotropin releasing hormone
(GnRH); Precursor to GnRH;
Immunocytochemistry; Rat; Rhesus
monkey; Hypothalamus;
Gonadotropin; Protein processing
Silverman, A.-J.) **402**, 346

Somatostatin; Analogue; Vasopressin;
Hemorrhage (Wang, X.) **436**, 199

Shiverer model

Mouse; Oligodendrocyte; Myelination;
Intracerebral transplantation; Cell
migration (Baulac, M.) **420**, 39

Shiverer mouse

Na⁺, K⁺-ATPase; Myelin-associated
glycoprotein; Immunocytochemistry;
Central nervous system; Myelin;
Trigeminal nerve (Sheedlo, H.J.)
415, 105

Short Sleep mouse

Chronic ethanol; Long Sleep mouse;
 γ -Aminobutyric acid (GABA); Basket
cell; Dentate fascia (Scheetz, A.J.)
403, 151

Ethanol; Hippocampus; Stratum
oriens; Long-sleep mouse; Dendritic
spine (Scheetz, A.J.) **409**, 329

Short time scale interaction

Cross-correlation; Hypothalamus;
Raphe; Reticular formation;
Spontaneous averaging; Sympathetic
nerve discharge (Gebber, G.L.)
410, 106

Short-term isolation

DRG 2766; ACTH₄₋₁₀; Motor activity;
Opioid; Naltrexone (Wolterink, G.)
421, 41

SHR

Neuropeptide Y (NPY); Receptor;

Autoradiography; Area postrema;
Blood pressure (Nakajima, T.) **417**, 360

Sigma receptor

Atropine; Electroencephalogram;
Hippocampal theta wave;
Phencyclidine; Psychotomimetic opioid;
Serotonin (Vanderwolf, C.H.) **414**, 109

Phencyclidine; Phencyclidine receptor;
N-Methyl-D-aspartate;
Neurotransmitter release (Zukin, S.R.)
416, 84

Signal averaging

Itch; Pruritus; Cutaneous receptor;
Cowhage; Nociceptor;
Electrocutaneous stimulation
(Tuckett, R.P.) **413**, 95

Signal transduction

Guanine nucleotide-binding protein;
Islet-activating protein substrate; Islet
of Langerhans; Immunohistochemistry
(Terashima, T.) **417**, 190

Guanine nucleotide-binding protein
(Lad, R.P.) **423**, 237

**Simian virus 40 (SV40)
transformation**

Schwann cell line; Myelin-protein; P₀
protein; P₀ mRNA; Myelin-associated
glycoprotein; 2':3'-Cyclic nucleotide
3'-phosphodiesterase;
Galactocerebroside; Sulfatide
(Chen, G.L.) **414**, 35

Simple spike

Cerebellar cortex; Interposed nucleus;
Purkinje cell; Cross-correlation
(McDevitt, C.J.) **425**, 1

Cerebellar cortex; Interposed nucleus;
Climbing fiber afferent; Complex spike;
Purkinje cell (McDevitt, C.J.) **425**, 14

Cyclic guanosine monophosphate
(cGMP); Climbing fiber;
3-Acetylpyridine; Purkinje cell;
Cerebellum; Complex spike
(Oltmans, G.A.) **437**, 183

Single channel

Mammalian neuron; Potassium
channel; Neonate (Simonneau, M.)
412, 224

Single channel conductance

Cultured hippocampal pyramidal cell;
 γ -Aminobutyric acid; Single chloride
channel; Patch clamp recording; Amino
acid (Allen, C.N.) **410**, 159

Single chloride channel

Cultured hippocampal pyramidal cell;
 γ -Aminobutyric acid; Patch clamp
recording; Single channel conductance;
Amino acid (Allen, C.N.) **410**, 159

**Single electroconvulsive shock
(ECS)**

Chronic electroconvulsive shock;
Dynorphin; β -Endorphin; Analgesia;
Catalepsy (Lasoń, W.) **403**, 301

Single fiber

Taste; Rat; Chorda tympani nerve; Ion
specificity; Anodal current; Ionic taste

stimulus (Ninomiya, Y.) **404**, 350

**Single intracerebroventricular
injection**

Delta-sleep-inducing peptide (DSIP);
Sleep-wake activity; Cat (Šušić, V.)
414, 262

Single neuron

Area 18; Cat neocortex; Diffuse
receptive field (Albus, K.) **410**, 199

L-threo-3,4-Dihydroxyphenylserine
(L-threo-DOPS); Noradrenaline; Spinal
trigeminal nucleus (Sasa, M.) **420**, 157

Single neuron activity

Lateral hypothalamus; Monkey;
Electrophoresis; Dopamine;
Noradrenaline; Operant feeding; Cue
response; Reward (Nishino, H.)
405, 56

Ventral tegmental area; Monkey;
Dopamine; Feeding; Motor;
Motivation; Vocalization (Nishino, H.)
413, 302

Single neuron recording

Cortex; Bimodal neuron; Unimodal
neuron; Association cortex
(Minciacchi, D.) **410**, 21

**Single photon emission computed
tomographic (SPECT) scanning**

D₁- and D₂-dopamine receptor; In vivo
receptor labeling; Neuroleptic drug
(Leslie, C.A.) **415**, 90

Single unit

Memory; Hippocampus; Medial
temporal lobe; Recognition; Monkey
(Brown, M.W.) **409**, 158

Red nucleus; Rubrospinal;
Microelectrode; Motor control; Digit
movement; Monkey (Kennedy, P.R.)
417, 185

Globus pallidus; Basal Ganglion; Limb
Movement (Mink, J.W.) **417**, 393

Autonomic; Baroreceptor reflex; Blood
pressure; Catecholamine;
Microiontophoresis; Nucleus tractus
solitarius (Feldman, P.D.) **420**, 351

Single unit activity

Ventral root afferent; Collision
technique; Refractory period; Dorsal
root ganglion cell; Unmyelinated fiber
(Kim, J.) **417**, 304

Superior olivary complex; Auditory
brainstem response (ABR); Timing of
unit discharge; Timing of the ABR
component; Latency/intensity function
(Kano, Y.) **419**, 262

Single unit recording

Substantia nigra; Globus pallidus;
Dopamine; Autoreceptor; Dopamine
agonist; D₁ receptor; D₂ receptor
(Carlson, J.H.) **400**, 205

Substantia nigra pars reticulata;
6-Hydroxydopamine; Nigrostriatal
lesion; Dopamine; D₁-receptor;
D₂-receptor (Weick, B.G.) **405**, 234

Dentate gyrus; Hippocampus;
Sequential dependencies (Foster, T.C.)
408, 86

Rat; Aging; Cholinergic neuron;
Septum; Septo-hippocampal pathway
(Lamour, Y.) **416**, 277

Sinus gland

Crustacean; Electrical potential;
Neurosecretion; Moulting cycle
(Chiang, R.G.) **402**, 49

Size-principle

Stapedius; Motoneuron; Recruitment;
Acoustic-reflex; Hearing (Kobler, J.B.)
425, 372

Skeletal muscle

Insulin receptor; Neurotrophism;
Denervation (Hofmann, W.W.)
401, 312

Neuromuscular; Visuomotor; Lateral
rectus muscle; Motoneuron
degeneration (LaVail, J.H.) **404**, 127

Acetylcholine receptor; Receptor
metabolism; Lithium; Cation;
Phosphoinositide; Calcium
(Pestronk, A.) **412**, 302

Nerve growth factor; Na-K pump;
Membrane potential; Culture
(Brodie, C.) **435**, 393

Skeletofusimotor axon

Nerve regeneration; Muscle spindle
(Scott, J.J.A.) **401**, 152

(+)-[³H]SKF 10,047 competition
MK-801; Phencyclidine
(PCP)/σ-receptor; Haloperidol-sensitive
non-PCP/σ-binding site;
Anticonvulsant; [³H]TCP binding;
N-Methyl-D-aspartate
(NMDA)-stimulated
[³H]norepinephrine release (Sircar, R.)
435, 235

[³H]SKF 38393

Dopamine D₁ receptor binding;
Autoradiography; Mouse (Juhász, M.)
423, 305

SKF-100330A

Hippocampus; Dentate gyrus;
Recurrent collateral inhibition;
SKF-89976A; γ-Aminobutyric acid
(GABA); γ-Aminobutyric acid
(GABA) uptake blocker;
γ-Aminobutyric acid
(GABA)-mediated inhibition;
Facilitation (Albertson, T.E.) **435**, 283

SKF-89976A

Hippocampus; Dentate gyrus;
Recurrent collateral inhibition;
SKF-100330A; γ-Aminobutyric acid
(GABA); γ-Aminobutyric acid
(GABA) uptake blocker;
γ-Aminobutyric acid
(GABA)-mediated inhibition;
Facilitation (Albertson, T.E.) **435**, 283

Skin

Calcitonin gene-related peptide;
Substance P; Somatostatin; Sensory

neuron; Human; Immunofluorescence
(Gibbins, I.L.) **414**, 143

Skin afferent

Exercise; Lactate; Muscle afferent;
Cardiovascular reflex (Gregory, J.E.)
404, 375

Skin temperature

Opiate; Morphine; Naloxone; Opiate
withdrawal; Clonidine; Norepinephrine
(Katovich, M.J.) **426**, 55

Sleep

Narcolepsy; Receptor; Dopamine
(Bowersox, S.S.) **402**, 44

Caffeine; Adenosine; Rat (Yanik, G.)
403, 177

Muramyl peptide; Peptidoglycan; Mass
spectrometry; Rabbit; Fever
(Krueger, J.M.) **403**, 249

Ponto-geniculo-occipital (PGO); Unit
activity; Lateral geniculate nucleus;
Development; Cat (Davenne, D.)
409, 1

Creutzfeldt-Jakob disease; REM sleep;
Ponto-geniculo-occipital wave;
Neuropathological change; Raphé
lesion; Cat (Gourmelon, P.) **411**, 391

Cerebral circulation; Regional blood
flow; Microsphere (Lenzi, P.) **415**, 14

Cerebrospinal fluid; Circadian rhythm;
Vasopressin; Vasoactive intestinal
polypeptide (Kruisbrink, J.) **419**, 76

Paradoxical sleep deprivation; Nuchal
muscle activity (Pivik, R.T.) **423**, 196

Reticular formation; Nucleus reticularis
gigantocellularis; Spinal cord;
Motoneuron; Inhibitory postsynaptic
potential (IPSP); Glycine;
γ-Aminobutyric acid (Soja, P.J.)
423, 353

Hippocampus; Long-term synaptic
enhancement; Long-term potentiation
(LTP); Behavioral state; Field
potential; Learning; Memory
(Leonard, B.J.) **425**, 174

Sleep waking

Respiration; Iontophoresis; Glutamate;
Chronic cat (Foutz, A.S.) **404**, 10

Sleep-wake activity

Delta-sleep-inducing peptide (DSIP);
Single intracerebroventricular injection;
Cat (Šušić, V.) **414**, 262

Sleep-wake cycle

Evoked potential; Amygdala kindling;
Systemic penicillin epilepsy; Ventral
lateral thalamus; Motor cortex; Cat
(Shouse, M.N.) **425**, 198

Sleep-wakefulness

Aging; Circadian rhythm; Period
length; Free-running; Rat (Van
Gool, W.A.) **413**, 384

Sleeping-time

Aldehyde dehydrogenase; Anesthesia;
Barbiturate; Disulfiram; Hexobarbital;

Noradrenaline; Serotonin
(Nilsson, G.E.) **409**, 265

Slice

Olfactory bulb; Substance P;
γ-Aminobutyric acid (GABA);
Glomerular cell layer;
Electrophysiology (Olpe, H.R.)
412, 269

Caudate nucleus; Dopamine;
Dopamine receptor; Haloperidol;
Intracellular recording (Akaike, A.)
418, 262

Extracellular diffusion;
Tetramethylammonium profile;
Unstirred bathing; Tortuosity; Volume
fraction (Lipinski, H.-G.) **437**, 26

Slice culture

Choline; Acetylcholine; Septum;
Cholinergic neuron; Hemicholinium-3;
High affinity choline uptake
(Keller, F.) **405**, 305

Slice preparation

Non-pyramidal cell; Fast spiking cell;
GABAergic neuron; Hippocampus;
Dentate gyrus; Intracellular injection of
HRP (Kawaguchi, Y.) **411**, 190

Transplantation; Visual cortex; Lateral
geniculate nucleus; Current
source-density analysis; Intracellular
analysis (Hamasaki, T.) **422**, 172

Paraventricular nucleus;
Thermosensitivity; Phasic firing
neuron; Vasopressin neuron; Body
water balance (Inenaga, K.) **424**, 126

Rat subthalamic neuron; Intracellular
recording; Membrane property
(Nakanishi, H.) **437**, 35

Rat substantia nigra neuron;
Intracellular recording; Membrane
property; Subthalamonigral input
(Nakanishi, H.) **437**, 45

Slow axonal transport

Hypoxia; Experimental Neuropathy;
p-Bromophenylacetylurea; Nerve
conduction velocity; Ischemic
conduction failure (Nagata, H.)
422, 319

Slow constant velocity rotation

Vestibular neuron; Otolith; Head tilt;
Clockwise and counterclockwise
direction (Chan, Y.S.) **406**, 294

Slow excitatory postsynaptic potential (EPSP)

Sympathetic ganglion; Sucrose-gap;
Slow inhibitory postsynaptic potential
(IPSP); Muscarinic receptor; Bullfrog
(Yavari, P.) **400**, 133

Slow inhibitory postsynaptic potential (IPSP)

Sympathetic ganglion; Sucrose-gap;
Slow excitatory postsynaptic potential
(EPSP); Muscarinic receptor; Bullfrog
(Yavari, P.) **400**, 133

Slow potential

Epilepsy; Hippocampus; Hippocampal

slice: Penicillin (Schneiderman, J.H.) **403**, 162

Spreading depression: Ketamine;
Anoxic depolarization: Rat
(Hernández-Cáceres, J.) **437**, 360

Slow potential change

Spreading depression (SD): Cyclic adenosine monophosphate (cAMP); Cerebral cortex: Rat (Gorelova, N.A.) **404**, 379

Slow spike

Theta genesis: Intracellular theta; Hippocampal pyramid: Spike burst; Lucifer yellow (Núñez, A.) **416**, 289

Slow synaptic current

Potassium conductance: Neuron modulation: Bursting cell: *Helix* (Pin, T.) **412**, 165

Slow synaptic hyperpolarization

Cat bladder ganglion: Parasympathetic neuron: Intracellular recording; Postganglionic stimulation (Kumamoto, E.) **435**, 403

Slow synaptic potential

Catecholamine: Sympathetic preganglionic neuron: Spinal cord: Potassium conductance (Yoshimura, M.) **414**, 138

Tachykinin: Avian sympathetic ganglion: Intracellular recording; M-current: Substance P: Autonomic pharmacology (Ramirez, O.A.) **414**, 228

Catecholamine: Sympathetic neuron: Spinal cord: Potassium conductance (Yoshimura, M.) **419**, 383

Slow twitch muscle fiber

Horseradish peroxidase: Motoneuron: Fast twitch muscle fiber: Tibialis anterior muscle: Soleus muscle: Ageing: Rat (Ishihara, A.) **435**, 355

Slow-wave sleep

Muramyl peptide: Rapid eye movement (REM) sleep: Brain temperature: Electroencephalogram (EEG): Fever (Krueger, J.M.) **403**, 258

Posterior cingulate cortex: Electroencephalographic spike: Multi-unit activity: Theta rhythm: Transcallosal evoked potential: Fast oscillation: Rapid-eye-movement sleep (Leung, L.-W.S.) **407**, 68

Acute-phase response: Rabbit: Fever; Glycoprotein (Shoham, S.) **419**, 223

Slowly conducting fiber

Dorsal root ganglion cell: Functional morphology: Dichotomizing fiber; Intracellular horseradish peroxidase; Soma size distribution (Hoheisel, U.) **423**, 269

Small amplitude vibration

Purring: Intercoastal activity; Cross-correlation: Stretch reflex; Vocalization (Kirkwood, P.A.) **405**, 187

Small cardioactive peptide SCP_B

Neuropeptide; FMRFamide; Stomatogastric nervous system; Crustacean: Antibody (Callaway, J.C.) **405**, 295

Small diameter intrafusal muscle fiber

Frog muscle spindle; Fusimotor innervation: Enhancement of static component: Decay in dynamic component: Glycogen depletion (Fujitsuka, N.) **415**, 144

Small intensely fluorescent cell

Enkephalin: Superior cervical ganglion: Immunocytochemistry; Guinea pig (Matsuyama, T.) **418**, 325

Smooth muscle

Trachea: Parasympathetic ganglion; Airway resistance (Mitchell, R.A.) **437**, 157

SMS 201-995

Human brain: Somatostatin receptor; Subpopulation; Cortex; Somatostatin-28 (Reubi, J.C.) **406**, 391

Snail

Opioid analgesia; Non-opioid analgesia; Stress; Naloxone: ICI 154,129: β -Funaltrexamine (B-FNA); Evolution (Kavaliers, M.) **410**, 111

Snail neuron

Intracellular calcium concentration; Bursting activity; Calcium ionophore; Seizure (Sugaya, E.) **416**, 183

Snake

Infrared sensitive; Trigeminal; Oral cavity (Dickman, J.D.) **400**, 365

Sodium

Prolactin; Sulpiride; Apomorphine; Dopamine; Adrenal gland (Collu, R.) **401**, 23

Sodium channel gating

Pyrethroid; Neurotoxin; Neuroblastoma; Temperature (Ruigt, G.S.F.) **437**, 309

Sodium current

Zonisamide; Axon; Anticonvulsant; Inactivation (Schauf, C.L.) **413**, 185

Sodium dependency

[³H]Imipramine binding; Protease sensitivity; 5-Hydroxytryptamine; Desipramine; Human brain (Bäckström, I.T.) **425**, 128

Sodium excretion

Circumventricular organ; Subcommissural organ; Aldosterone; Catecholamine; Eating: Drinking behavior (Dundore, R.L.) **401**, 122

Drinking: Water deprivation; Organum vasculosum lamina terminalis (OVLT); Anterior region of the third cerebral ventricle (AV3V) (Thornton, S.N.) **437**, 339

Sodium ion

[³H]Sulpiride; D₂ Dopamine receptor; Magnesium ion; Temperature; Guanine

nucleotide; Ni protein; Ternary complex model (Imafuku, J.) **402**, 331

Sodium pump

Frog spinal motoneuron; Quisqualate; N-methyl-D-aspartate; Kainate; After-hyperpolarization (Hackman, J.C.) **407**, 94

Arachidonate; Na⁺, K⁺-ATPase; Brain microsome; Mouse diaphragm (Vyskočil, F.) **436**, 85

Soleus muscle

Horseradish peroxidase; Motoneuron; Fast twitch muscle fiber; Slow twitch muscle fiber; Tibialis anterior muscle; Ageing: Rat (Ishihara, A.) **435**, 355

Solubilization

Opioid receptor; Glycodeoxycholate/NaCl; Receptor type; Dilution (Maruyama, M.) **401**, 14

Solubilization of binding site

[³H]Glutamate binding; Rat adrenal; Stereo- and structure-selectivity; N-methyl-D-aspartic acid; 2-Amino-3-phosphonopropionic acid; Kynurenic acid (Yoneda, Y.) **406**, 24

Soma size distribution

Dorsal root ganglion cell; Functional morphology; Slowly conducting fiber; Dichotomizing fiber; Intracellular horseradish peroxidase (Hoheisel, U.) **423**, 269

Soman

Forskolin; Diaphragm; Compound action potential (Bradley, R.J.) **425**, 401

Nerve agent; O-ethyl-S-(2-diisopropylaminoethyl)-methylphosphonothioate (VX); Convulsion; Amygdala; Brain damage; Neuropathology; Excitotoxic; Microinjection (McDonough Jr., J.H.) **435**, 123

Somatic sensory cortex

Acetylcholine; Rat; Neural modulation (Donoghue, J.P.) **408**, 367

Somatic stimulus

REM sleep; Sensory system (Arankowsky-Sandoval, G.) **400**, 155

Somato-vesical reflex

Rat; Micturition reflex; Vesico-vesical reflex; Urethane; Bladder voiding; Sensory neuron; Sensory-efferent function (Maggi, C.A.) **415**, 1

Somatosensory

Superior colliculus; Direction sensitivity; Cat; Tactile (Clemo, H.R.) **405**, 313

Hyperstriatum; Neostriatum; Thalamus; Wheatgerm agglutinin-horseradish peroxidase; Avian (Wild, J.M.) **412**, 205

Somatosensory cortex

6-Hydroxydopamine; Posteromedial barrel subfield; Development (Loeb, E.P.) **403**, 113

Rhesus monkey; Vibration; Movement; Corollary discharge (Nelson, R.J.) **406**, 402

Oral structure; Tactile sensation; Bilateral representation; Somatotopic representation; Cytoarchitectural organization (Taira, K.) **409**, 41

Periodontal mechanosensitive neuron; Sensory adaptation; Directional selectivity; Interaction of afferent inputs (Taira, K.) **409**, 52

Cortex; Parietal cortex; Ablation; Temperature; Discrimination; Lemniscal; Extralemniscal (Porter, L.H.) **412**, 54

5,6-Dihydroxytryptamine; Para-chloroamphetamine; Serotonin; Neurotoxicity; Hippocampus; Striatum (Commins, D.L.) **419**, 253

[³H]Muscimol; Mouse; Barrel field; Autoradiography; γ -Aminobutyric acid (GABA) receptor (Chmielowska, J.) **425**, 283

β -Adrenergic receptor; Neostriatum; Synaptosome; Anterior cingulate cortex; Postsynaptic density; Membrane recycling (Aoki, C.) **437**, 264

Pyramidal tract neuron; Layer V pyramidal neuron; Intracellular horseradish peroxidase; Cat (Yamamoto, T.) **437**, 369

Somatosensory input

Mauthner cell; Startle reflex; Goldfish; Dendritic integration (Chang, Y.T.) **417**, 205

Somatosensory pathway

Nerve graft; Axonal elongation; Thalamocortical connection; Tracing technique; Horseradish peroxidase (Cossu, M.) **415**, 399

Somatosensory system

Corpus callosum; Monkey; Interhemispheric transfer; Receptive field; Midline fusion (Guillemot, J.-P.) **402**, 293

Intralaminar thalamus; Horseradish peroxidase; Axonal transport; Spinothalamic tract (Ma, W.) **414**, 187

Capsaicin; Spinal cord; Dorsal horn; Sural nerve; Afferent fiber (Tattersall, J.E.H.) **416**, 337

Somatostatin

Neuropeptide Y; Cysteamine (Chattha, G.K.) **401**, 359

Alzheimer's disease; Cholinergic system; Post-mortem tissue; Cerebrospinal fluid (CSF); Pathogenesis (Reinikainen, K.J.) **402**, 103

Neurite regeneration; Gastropod neuron; Calcitonin; Growth factor (Grimm-Jørgensen, Y.) **403**, 121

Cysteamine; Norepinephrine;

Dopamine; Cerebrospinal fluid (CSF); Memory; Activity; Rat (Haroutunian, V.) **403**, 234

Neuropeptide Y; Monkey; Basal ganglion; Cortex (Beal, M.F.) **405**, 213

Choline acetyltransferase; Nucleus basalis; Noradrenaline; 5-Hydroxytryptamine; Neocortex; Excitotoxin; Alzheimer's disease (Fine, A.) **406**, 326

Parvalbumin; Ca²⁺ binding protein; Fast spiking neuron; Cholecystokinin; γ -Aminobutyric acidergic system; Local circuit neuron; Cerebral cortex (Kosaka, T.) **409**, 403

Neuropeptide Y; Amphetamine; Dopamine; Caudate nucleus; Push-pull perfusion (Tatsuoka, Y.) **411**, 200

Sprouting; Neurite; Regeneration; Peptide; Plasticity; Mollusc (Bullock, A.G.M.) **412**, 6

Choline acetyltransferase; Acetylcholinesterase; Substance P (Martínez, H.J.) **412**, 295

Calcitonin gene-related peptide; Substance P; Sensory neuron; Skin; Human; Immunofluorescence (Gibbins, I.L.) **414**, 143

Leukotriene; Luteinizing hormone-releasing hormone; FPL-55712; Median eminence (Gerozissis, K.) **416**, 54

Kindling; Central nervous system; Brain; Neuropeptide (Pitkänen, A.) **416**, 180

Stress; Neurotensin; Ventral tegmental area; Dopamine; Corticotropin-releasing factor (Deutch, A.Y.) **417**, 350

Cortex; Cholinergic; Nucleus basalis; Immunohistochemistry; Rat (Mufson, E.J.) **417**, 385

Myenteric neuron; Cell culture; Rat; Co-transmitter; Acetylcholine; Vasoactive intestinal peptide (Willard, A.L.) **422**, 163

Co-occurrence; Cortex; Dorsal ventricular ridge; Basal ganglion; Neuropeptide Y; Evolution; Turtle (Reiner, A.) **426**, 149

Cerebral cortex; Ultrastructure; Immunohistochemistry (Mizukawa, K.) **426**, 28

Analogue; Vasopressin; Hemorrhage; Sheep (Wang, X.) **436**, 199

Huntington's disease; Corticotropin-releasing hormone; Basal ganglia; Postmortem human brain; Radioimmunoassay (De Souza, E.B.) **437**, 355

Somatostatin (SRIF)

α -MSH; β -Endorphin; Median eminence (ME); In vitro incubation

(Aguila, M.C.) **417**, 127

Somatostatin receptor

Human brain; Subpopulation; Cortex; Somatostatin-28; SMS 201-995 (Reubi, J.C.) **406**, 391

Somatostatin-28

Human brain; Somatostatin receptor; Subpopulation; Cortex; SMS 201-995 (Reubi, J.C.) **406**, 391

Somatotopic representation

Somatosensory cortex; Oral structure; Tactile sensation; Bilateral representation; Cytoarchitectural organization (Taira, K.) **409**, 41

Somatotopy

Spinal cord; Plasticity (Hylden, J.L.K.) **411**, 341

Source of cholinergic input

Ferret; Visual cortex; Retrograde transport; Choline acetyltransferase immunohistochemistry (Henderson, Z.) **412**, 261

Space representation

Cerebellar neuron; Spatial response area; Bat (Sun, X.) **414**, 314

Spantide

Serotonin; Substance P; Neuromedin K; Release; Cerebral cortex (Solti, M.) **401**, 377

Spatial analysis (EEG)

Cortex (visual); EEG (spatial pattern); Monkey (rhesus); Perception (visual); Visual cortex (EEG) (Freeman, W.J.) **422**, 267

Spatial coding

Odor processing; 2-Deoxyglucose; Olfactory bulb; Olfactory epithelium; Suckling pheromone; Odor learning; Newborn rabbit (Hudson, R.) **421**, 85

Spatial decay method

Miniature endplate potential (MEPP) frequency; MEPP amplitude; Frog neuromuscular junction; Transmitter release; Non-uniformity (Robitaille, R.) **408**, 353

Spatial geometry

Semicircular canal; Extraocular muscle; Gaze direction; Rat (Daunicht, W.J.) **435**, 48

Spatial memory

Hippocampus; Electrical stimulation; Naloxone (Collier, T.J.) **409**, 316

Spatial response area

Cerebellar neuron; Bat; Space representation (Sun, X.) **414**, 314

Species difference

Neuropeptide Y; Neuropeptide Y receptor; Autoradiography; Mammal; Forebrain (Martel, J.-C.) **419**, 403

Guanosine triphosphate (GTP)-binding protein; Islet-activating protein (pertussis toxin); Retina; Immunohistochemistry (Terashima, T.) **436**, 384

Specific protein

Synaptic vesicle; Monoclonal antibody; Immunohistochemistry; Immunoblot analysis (Obata, K.) **404**, 169

Spectral analysis

Phrenic; Recurrent laryngeal; Hypoglossal; Respiratory rhythm; Oscillation; Pulmonary afferent; Carbon dioxide (Cohen, M.I.) **417**, 148

Spectral response

Eastern chipmunk (*Tamias sibiricus asiaticus*); Geniculate relay cell; Receptive field; Conduction latency (Wakakuwa, K.) **404**, 211

Spectral sensitivity

Pineal organ; Rat; Hamster; Guinea pig (Thiele, G.) **424**, 10

Spermidine

Putrescine; Spermine; Synaptosome; Calcium uptake; Free intracellular calcium (Komulainen, H.) **401**, 50

Spermine

Putrescine; Spermidine; Synaptosome; Calcium uptake; Free intracellular calcium (Komulainen, H.) **401**, 50

Spider toxin

2,4-Dihydroxyphenylacetic acid; Glutamate binding activity; Mechanism of biological action; Effect of ferric ion (Pan-Hou, H.) **418**, 198

Spike

Brain; Coding; Statistical analysis; Triplet; Redundancy (Lestienne, R.) **437**, 214

Spike and wave

Cortical neuron; Penicillin; Generalized epilepsy (Giaretta, D.) **405**, 68

Spike burst

Theta genesis; Intracellular theta; Hippocampal pyramid; Slow spike; Lucifer yellow (Núñez, A.) **416**, 289

Spike train

Aversion; Brain stimulation; Local neuronal circuitry; Mesencephalon; Periaqueductal gray; Rat; Stochastic process; Unit activity (Sandner, G.) **421**, 150

Spike train analysis

Arterial chemoreceptor; Dopamine (Donnelly, D.F.) **407**, 195

Spike-triggered averaging

Cross-correlation; Hypothalamus; Raphe; Reticular formation; Short time scale interaction; Sympathetic nerve discharge (Gebber, G.L.) **410**, 106

Spin trapping

Electron spin resonance; Free radical; Brain ischemia; Lipid peroxidation (Tominaga, T.) **402**, 370

Spinal afference

Cat; Neuroanatomic tracing; Lateral cervical nucleus; Ultrastructure (Svensson, B.A.) **423**, 229

Spinal cat

Locomotion; Training; Kinematics; Electromyogram (EMG) (Barbeau, H.) **412**, 84

Spinal cord

Glycine; Lateral horn cell; Inhibitory transmitter (Mo, N.) **400**, 139

Transection; Pudendal nerve; Evoked response; Supraspinal control; Lordosis; Cutaneous reflex (Cohen, M.S.) **401**, 103

Dorsal horn; Nociceptive neuron; Inhibition; Muscle afferent; GABA; Bicuculline (Morris, R.) **401**, 365

Shaking pup; Myelin-deficient rat; Mosaicism; Optic nerve (Duncan, I.D.) **402**, 168

Pain; Met-enkephalin release (Le Bars, D.) **402**, 188

Anesthetic; Halothane; Motoneuron; Excitatory postsynaptic potential (EPSP); Inhibitory postsynaptic potential (IPSP) (Takenoshita, M.) **402**, 303

Locus coeruleus; Brainstem; Monosynaptic reflex; Renshaw cell; Descending control; Motoneuron; Inhibition (Fung, S.J.) **402**, 351

Neuroglia; Astrocyte; Glial fibrillary acidic protein (GFAP); White matter; Rat (Liuzzi, F.J.) **403**, 385

Corticospinal tract; Arcuate premotor area; Premotor area (Martino, A.M.) **404**, 307

Rat; Antinociception; Morphine; Clonidine; Potentiation; Sensory system; Motor system (Wilcox, G.L.) **405**, 84

Antinociception; Nucleus raphe magnus; Norepinephrine; Serotonin; Superfusion; Neurotransmitter release (Sagen, J.) **406**, 246

Pentobarbital; Nociception; Naloxone; Bicuculline; Picrotoxinin; Intrathecal; GABAergic transmission (Stein, C.) **407**, 307

Heat production; Synaptic heat (Tasaki, I.) **407**, 386

Hippocampus; Glucocorticoid receptor; RNAase A; Corticosterone; Dexamethasone; DNA-cellulose binding (Moses, D.F.) **408**, 118

Peptide; Coexistence; Immunohistochemistry; Hypothalamus; Medullary raphe nucleus (Holets, V.R.) **408**, 141

Paramedian reticular nucleus; Horseradish peroxidase; Fluorescent dye; Axonal branching; Cardiovascular regulation; Intermediolateral nucleus (Elisevich, K.) **408**, 227

Immunohistochemistry; Lamprey; Neuropeptide; Phylogenetic conservation (Buchanan, J.T.) **408**, 299

Intra-axonal staining; Immunocytochemistry; Primary afferent fiber; γ -Aminobutyric acid; Presynaptic inhibition; Cat (Maxwell, D.J.) **408**, 308

Cat; Lesion; Monoamine; Neurotransmitter (Casey, K.L.) **408**, 377

Pregnancy; Opioid analgesia; Naltrexone (Sander, H.W.) **408**, 389

Fictive locomotion; Edge cell; Lamprey; Sensory feedback (Alford, S.) **409**, 139

Enkephalin; α -Motoneuron; Synapse; Neuropeptide; Electron microscopy (Atsumi, S.) **409**, 187

Voltammetry; 5-Hydroxyindole; Morphine; Probenecid; Nucleus raphe magnus (Chiang, C.-Y.) **411**, 259

Somatotopy; Plasticity (Hylden, J.L.K.) **411**, 341

Pain; Dorsolateral funiculus; Met-enkephalin release (Le Bars, D.) **412**, 190

Opioid peptide; Chronic foot shock; Pain (Przewłocki, R.) **413**, 213

Opioid receptor; μ -Opioid; δ -Opioid; Nociception; Analgesia; Intrathecal opioid; Rat dorsal horn; Enkephalin (Dickenson, A.H.) **413**, 36

Catecholamine; Sympathetic preganglionic neuron; Slow synaptic potential; Potassium conductance (Yoshimura, M.) **414**, 138

Brainstem; Intercostal-to-phrenic reflex; Phrenic afferent; Respiration (Speck, D.F.) **414**, 169

Spinal cord

κ -Agonist; Intrathecal administration; Rat dorsal horn; κ -Opioid receptor; Antinociception; Analgesia; U50488H; Ethylketocyclazocine; Dynorphin A₁₋₁₃ (Knox, R.J.) **415**, 21

Spinal cord

Neuropeptide Y; Distribution; Cat; Autonomic nucleus; Colchicine (Krukoff, T.L.) **415**, 300

Regeneration; Command neuron; Lamprey (Currie, S.N.) **415**, 337

Sciatic; Saphenous; Denervation; 4-Aminopyridine; γ -Aminobutyric acid (GABA); Glycine; Sprouting (Markus, H.) **416**, 315

Capsaicin; Dorsal horn; Sural nerve; Somatosensory system; Afferent fiber (Tattersall, J.E.H.) **416**, 337

Capsaicin; Primary sensory afferent; Urinary bladder; Horseradish peroxidase; Selective degeneration (Jancsó, G.) **418**, 371

5-Hydroxyindole; Voltammetry; Electrochemistry; Uric acid (Rivot, J.P.) **419**, 201

Cl⁻-ATPase; Na⁺,K⁺-ATPase; Motoneuron; Rat (Inagaki, C.) **419**, 375

Catecholamine; Sympathetic neuron; Slow synaptic potential; Potassium conductance (Yoshimura, M.) **419**, 383

Immunohistochemistry; Thyrotropin-releasing hormone; Intracellular staining; Horseradish peroxidase; Motoneuron (Ulfhake, B.) **419**, 387

δ-Opioid receptor; Thermal antinociception; Brain (Heyman, J.S.) **420**, 100

Dissociated cell culture; Motoneuron; Mouse; Choline acetyltransferase; Glutamic acid decarboxylase (Guthrie, P.B.) **420**, 313

Axon reaction; Lamprey; Interneuron; Axonal regeneration; Chromatolysis; Denervation; Spontaneous synaptic activity (Yin, H.-S.) **421**, 48

Androgen; Estrogen; Receptor; 5α-Reductase (MacLusky, N.J.) **422**, 83

N-Methyl-D-aspartate; Excitatory amino acid; Pain; Analgesia (Raigorodsky, G.) **422**, 158

Reticular formation; Nucleus reticularis gigantocellularis; Motoneuron; Inhibitory postsynaptic potential (IPSP); Sleep; Glycine; γ-Aminobutyric acid (Soja, P.J.) **423**, 353

Barrier; Horseradish peroxidase; Transection (Noble, L.J.) **424**, 177

Enkephalin; Substance P; Immunohistochemistry; Immunofluorescence; Coexistence; Cat (Tashiro, T.) **424**, 391

Wind-up; Excitatory amino acid; N-Methylaspartate; Ketamine (Davies, S.N.) **424**, 402

Orchidectomy; Testosterone; Catecholamine; Serotonin; Hypothalamus; Cerebral cortex (Battaner, E.) **425**, 391

Injury; Immunoglobulin G (IgG); Immunoglobulin M (IgM); Astrocyte; Regeneration; Immunoglobulin (Bernstein, J.J.) **426**, 112

Dynorphin; Tail-flick; Neurotoxicity; Reflex; Morphine (Caudle, R.M.) **435**, 1

γ-Motoneuron; Motor control; Reflex; Muscle afferent; Muscle spindle afferent; Cutaneous afferent; Movement sense (Johansson, H.) **435**, 337

Respiration; Neural; Intracellular; Cat (Duffin, J.) **435**, 351

Motoneuron; Membrane resistance; Electrotonic length; Cable model; Time constant; Dendrite (Glenn, L.L.)

435, 398

Horseradish peroxidase; Wheat germ agglutinin; Anterograde degeneration; Electron microscopy; Substantia nigra; Superior colliculus; Cat (Tokuno, H.) **436**, 76

Subthalamic nucleus; Globus pallidus; Extrapyramidal system; Basal ganglia; Retrograde fluorescent labeling; Rat (Takada, M.) **436**, 129

Dynorphin A; Blood flow; Opioid; Naloxone; Paralysis (Long, J.B.) **436**, 374

Dopamine; Liquor-contacting neuron; Elasmobranch (Roberts, B.L.) **437**, 171

Locus coeruleus; *Phaseolus vulgaris* leucoagglutinin (PHA-L); Substantia gelatinosa; Noradrenergic axon (Fritschy, J.-M.) **437**, 176

Enkephalin; Raphe magnus; Reticular formation; Retrograde tracer; Analgesia (Edwards, D.L.) **437**, 197

Spinal cord culture
Pertussis toxin; Dorsal horn response; Primary afferent network; Opioid network; Adenylate cyclase/cyclic AMP system (Crain, S.M.) **400**, 185

Spinal cord injury
Neurofilament; Protease inhibitor; Leupeptin; E-64; Morphometry; Fink-Heimer method (Iwasaki, Y.) **406**, 99

Homograft; Astrocyte; Implantation; Immunohistochemistry (Connor, J.R.) **409**, 62

Head injury; Kappa agonist; Ischemia; Neurological recovery (Hall, E.D.) **435**, 174

Spinal cord neuron
Cell culture; Phencyclidine (PCP); Tetraethylammonium (TEA); 4-Aminopyridine (4-AP); Potassium channel; Voltage clamp; Action potential (Aguayo, L.G.) **436**, 9

Spinal dorsal horn
Naloxone; Awake neurophysiology (Collins, J.G.) **401**, 95

Calcitonin gene-related peptide; Substance P; Capsaicin-induced release; Noxious pinch; Aversive reaction (Oku, R.) **403**, 350

Wide dynamic range (WDR) neuron; Chronic awake cat; Spontaneous activity (Collins, J.G.) **416**, 34

Spinal dorsal horn neuron
Nociception; Descending inhibition; Diffuse noxious inhibitory control; Cat (Morton, C.R.) **410**, 347

Spinal hyperactivity
Injury; Hyperalgesia; Neurogenic inflammation; C-Fiber afferent; Sympathetic efferent; Autotomy; Contralateral foot-withdrawal (Coderre, T.J.) **404**, 95

Spinal inhibition

Medulla; Pain; [D-Ala²]Methionine enkephalinamide (DALA); Vagal afferent (Randich, A.) **411**, 236

Spinal monosynaptic transmission

Human corticospinal tract; Percutaneous stimulation; Individual motor unit response; Corticospinal tract jitter (Zidar, J.) **422**, 196

Spinal motoneuron

Locus coeruleus; Excitatory postsynaptic potential (EPSP); Input resistance; Membrane excitability; Electrical stimulation; Cat (Fung, S.J.) **402**, 230

Spinal nerve lesion

Collateral sprouting; Sensory axon; Hairy skin; Dermatome; Wheat germ agglutinin-horseradish peroxidase conjugate; Anterograde transport; Microinjection (Kinnman, E.) **414**, 385

Spinal nucleus of the bulbocavernosus

Genotype; House mouse; Castration; Motoneuron; Strain difference; Androgen (Wee, B.E.F.) **424**, 305

Spinal reflex

Motor unit; Motoneuron; Electromyography; H-reflex; Motor control (Sabbahi, M.A.) **423**, 125

Spinal root

Axonal regeneration; Sensory neuron; Transganglionic; Enhancement (Richardson, P.M.) **411**, 406

Spinal sensory neuron

N-Acetylaspartylglutamate; Immunohistochemistry; Neuropeptide; Retina; Amphibian (Kowalski, M.M.) **406**, 397

Spinal trigeminal nucleus

Cochlear nucleus; Dorsal column nucleus; Cat; Wheat germ agglutinated horseradish peroxidase (WGA-HRP) (Itoh, K.) **400**, 145

Striatum; Putamen; Caudate nucleus; Nociception; Wheat germ agglutinin-horseradish peroxidase (WGA-HRP); Horseradish peroxidase (HRP); Cat (Yasui, Y.) **408**, 334

Subnucleus oralis; Subnucleus caudalis; Tooth pulp; Enkephalin; Naloxone; Inhibition (Ujihara, H.) **418**, 52

L-threo-3,4-Dihydroxyphenylserine (L-threo-DOPS); Noradrenaline; Single neuron (Sasa, M.) **420**, 157

Spinal trigeminal nucleus, pars interpolaris

Horseradish peroxidase; Anterograde labeling; Axon terminal in XII nucleus; Retrograde labeling; Hypoglossal motoneuron (Borke, R.C.) **422**, 235

Spinal α₂-adrenoceptor

Lateral hypothalamus; Stimulation-produced antinociception; Tail-flick reflex; Descending inhibition

(Aimone, L.D.) **403**, 290

Spindle afferent

Muscle spindle; Rat; Electron microscopy (Walro, J.M.) **425**, 311

Spine density

Alzheimer's disease; Senile dementia; Dendrite; Dentate gyrus; Granule cell; Golgi-rapid study; Morphometry; Human brain (De Ruiter, J.P.) **402**, 217

Spinocervicothalamic pathway

Lateral cervical nucleus; Sensitization; Thermal stimulation; Nociception (Kajander, K.C.) **436**, 390

Spinomesencephalic

Spinothalamic; Collateral projection; Nociception (Yeziarski, R.P.) **437**, 165

Spinothalamic

Spinomesencephalic; Collateral projection; Nociception (Yeziarski, R.P.) **437**, 165

Spinothalamic tract

Intralaminar thalamus; Somatosensory system; Horseradish peroxidase; Axonal transport (Ma, W.) **414**, 187

Trigeminothalamic tract; Opioid peptide; Dorsal horn; Nociception (Coffield, J.A.) **425**, 380

Spiny neuron

Embryonic graft; Neostriatum; Transplantation; Dendritic morphology; Morphometry; Rat (Zemanick, M.C.) **414**, 149

Siperone binding

Dopamine receptor; D₁ receptor; D₂ receptor; In vivo ligand binding (Leslie, C.A.) **407**, 253

[³H]Siperone

Weaver mutant mouse; Dopamine; Dopamine D₂ receptor binding assay; Striatum; Nucleus accumbens; Supersensitivity (Kaseda, Y.) **422**, 178

Receptor turnover; Dopamine D₂-receptor; Chronic neuroleptic treatment (Pich, E.M.) **435**, 147

[³H]Siperone binding

Chronic bombesin; Glutamate decarboxylase; Choline acetyltransferase; Rat brain; Acetylcholinesterase (Hsu, L.L.) **417**, 232

Split lateral rectus-retractor bulbi

Fatigue; Motor unit; Lateral rectus; Retractor bulbi; Abducens (Gurahian, S.M.) **415**, 281

Spontaneous activity

Periaqueductal gray; Nucleus raphe magnus; Lateral reticular nucleus; Noxious-evoked activity; Excitation; Inhibition (Sotgiu, M.L.) **414**, 219

Purkinje neuron; Granule cell; Culture; Ethanol; Glutamate response (Franklin, C.L.) **416**, 205

Spinal dorsal horn; Wide dynamic

range (WDR) neuron; Chronic awake cat (Collins, J.G.) **416**, 34

Cerebellar Purkinje neuron; Glutamate; Development; Fetal alcohol syndrome; Chronic ethanol (Yool, A.J.) **420**, 205

Spontaneous alternation

Purkinje cell degeneration; Mutant mouse; Habituation; Cerebellum (Lalonde, R.) **411**, 187

Spontaneous hypertension

Medulla oblongata; Nicotinic cholinergic; [³H]Nicotine (Yamada, S.) **410**, 212

Spontaneous synaptic activity

Axon reaction; Lamprey; Spinal cord; Interneuron; Axonal regeneration; Chromatolysis; Denervation (Yin, H.-S.) **421**, 48

Spontaneously hypertensive rat

α_2 -Adrenergic receptor; Quantitative autoradiography; Essential hypertension; Cardiovascular control; Blood pressure regulation (Gehlert, D.R.) **409**, 308

Angiotensin II; Angiotensin III; Brain; Electrophysiology; Ionophoresis (Harding, J.W.) **410**, 130

Dihydropyridine; Hippocampus; Frontal cerebral cortex; Senescence; PN 200-110 (Huguet, F.) **412**, 125

Sympathetic nerve; Superior cervical ganglion; Bilateral innervation; Hypertension; Thalamus; Autoregulation (Sadoshima, S.) **413**, 297

Neurochemistry; Sympathetic ganglion; Neuropeptide; Dopamine; Cyclic nucleotide (Ariano, M.A.) **415**, 115

Neurotensin; Wistar-Kyoto (WKY) rat; Brain; Radioimmunoassay (Shulkes, A.) **415**, 404

Angiotensin II; Angiotensin III; Blood pressure; Drinking (Wright, J.W.) **420**, 289

α_2 -Adrenergic receptor; Clonidine; Idazoxan; Pressor area; Ventrolateral medulla; Wistar-Kyoto rat (Punnen, S.) **422**, 336

Bay K8644; Nicardipine; Dihydropyridine; Hippocampus; Acetylcholine (Brisac, A.-M.) **435**, 160

Renin; Brain cell culture; Immunocytochemistry; Radioimmunoassay; High performance liquid chromatography; Normotensive WKY rat (Hermann, K.) **437**, 205

Spreading depression

Hippocampal slice; Inhibitory postsynaptic potential (IPSP);

γ -Aminobutyric acid (GABA); Development; Pyramidal cell; Anoxia (Janigro, D.) **404**, 189

Strength-duration; Rat cortex; Cathodal stimulation (Reid, K.H.) **404**, 361

Long-term depression; Long-term potentiation; Perforant path; Dentate area; Tetanization frequency (Bramham, C.R.) **405**, 100

Molecular probe; Seizure activity; Anoxia; Mitochondrion; Bicuculline; Picrotoxin (Evans, D.) **409**, 350

Ketamine; Anoxic depolarization; Slow potential; Rat (Hernández-Cáceres, J.) **437**, 360

Spreading depression (SD)

Slow potential change; Cyclic adenosine monophosphate (cAMP); Cerebral cortex; Rat (Gorelova, N.A.) **404**, 379

Sprouting

Central nervous system (CNS) reorganization; Neural plasticity; Age-at-lesion effect; Thalamus; Motor cortex; Hemispherectomy (Villablanca, J.R.) **410**, 219

Somatostatin; Neurite; Regeneration; Peptide; Plasticity; Mollusc (Bullock, A.G.M.) **412**, 6

Ganglioside; Behavioral recovery; Entorhinal cortex; Hippocampus; Learned alternation (Ramirez, J.J.) **414**, 85

Sciatic; Saphenous; Denervation; 4-Aminopyridine; γ -Aminobutyric acid (GABA); Glycine; Spinal cord (Markus, H.) **416**, 315

Squid axon

Ca²⁺ buffering; Ca²⁺-selective electrode; Ca²⁺ activity (Fong, C.N.) **436**, 229

Squirrel monkey

Separation distress; Separation anxiety; α_2 -Adrenergic receptor; Isolation call; Clonidine; Yohimbine (Harris, J.C.) **410**, 353

γ -Aminobutyric acid (GABA); Immunoreactivity; Vestibular endorgan; Efferent system (Usami, S.-I.) **417**, 367

Circadian rhythmicity; Suprachiasmatic nucleus; Deoxyglucose; Energy metabolism; Albino rat (Schwartz, W.J.) **424**, 249

Stapedius

Motoneuron; Recruitment; Size-principle; Acoustic-reflex; Hearing (Kobler, J.B.) **425**, 372

Starburst amacrine cell

Choline acetyltransferase; Cholinergic neuron; Immunocytochemical staining; Retina; Rabbit (Famiglietti, E.V.) **413**, 398

Directionally selective ganglion cell;
Cholinergic neuron; Retina; Cat;
Rabbit (Famiglietti, E.V.) **413**, 404

Startle

Alpha₂-adrenergic agonist; Cyclic adenosine monophosphate; Pertussis toxin; 2,2-(2,6-Diethylphenylamino)-2-imidazoline hydrochloride (Kehne, J.H.) **406**, 87

Startle reflex

Mauthner cell; Somatosensory input; Goldfish; Dendritic integration (Chang, Y.T.) **417**, 205

Startle response

Mauthner cell; Segregated synaptic input; Visual input; Mauthner cell ventral dendrite (Zottoli, S.J.) **401**, 113

State

Hippocampal; Electroencephalography (EEG); Theta-on; Theta-off; Cell (Colom, L.V.) **422**, 277

Statistical analysis

Brain; Coding; Spike; Triplet; Redundancy (Lestienne, R.) **437**, 214

Status epilepticus

Brain oxygen supply; Seizure; Pulmonary edema; Cerebral hypoxia; Cytochrome oxidase (cytochrome a₃) (Kreisman, N.R.) **417**, 335

Steady-state kinetics

Choline acetyltransferase; Alzheimer's disease; Choline (Nordström, Ö.) **420**, 371

Stereo- and structure-selectivity

[³H]Glutamate binding; Rat adrenal; N-methyl-D-aspartic acid; 2-Amino-3-phosphonopropionic acid; Kynurenic acid; Solubilization of binding site (Yoneda, Y.) **406**, 24

Stereology

Synaptic vesicle; Long-term potentiation; Hippocampus; Dendritic spine; Presynaptic (Applegate, M.D.) **401**, 401

Stereopsis

Visual cortex; Corpus callosum; Binocular interaction; Disparity-sensitive neuron; Depth perception; Nasotemporal overlap; Ocular dominance; Cat (Gardner, J.C.) **413**, 60

Stereotyped behavior

Apomorphine; Neurotensin; Cholecystokinin; Dopamine; Nucleus accumbens (Blumstein, L.K.) **404**, 293

Stereotypic behavior

Lateral habenula; Kainic acid; Dopamine; Haloperidol; Behavioral hypersensitivity (Carvey, P.M.) **409**, 193

Stereotypy

Amphetamine; Dopamine release; Intracerebral dialysis; Microdialysis; Locomotor activity; Striatum; Nucleus accumbens (Sharp, T.) **401**, 322

Nicotine; Dopamine metabolism; Substantia nigra lesion; Reverse tolerance; Caudate nucleus; Nucleus accumbens; Hypothermia (Lapin, E.P.) **407**, 351

Steroid

Analgesia; 3 α -Hydroxy-5 α -pregnan-20-one (3A5P); Opiate; Calcium channel antagonist; Benzodiazepine (Kavaliers, M.) **415**, 393

Steroid antagonist

Sympathetic ganglion; Transmitter; Tissue culture (Hendry, I.A.) **402**, 264

Steroid autoradiography

Medial preoptic area; Sex difference (Jacobson, C.D.) **414**, 349

Steroid feedback

Corticotropin releasing factor; Glucocorticoid; Neurosecretion; Paraventricular nucleus; Vasopressin (Sawchenko, P.E.) **403**, 213

Stimulation

Periaqueductal grey; Analgesia; β -Endorphin; Opioid; Prolactin; Stress (Millan, M.J.) **407**, 199

Stimulation-produced analgesia

Analgesia; Opioid peptide; Naloxone; Nucleus tractus solitarius; Pain; Pain-inhibition (Lewis, J.W.) **424**, 65

Periaqueductal gray; Tolerance; Analgesia; Pentobarbital; Rat (Morgan, M.M.) **425**, 356

Stimulation-produced antinociception

Lateral reticular nucleus; Locus coeruleus/subcoeruleus; Descending inhibition; Norepinephrine depletion; 6-Hydroxydopamine (6-OHDA); Supersensitivity; α_2 -Adrenoceptor up-regulation (Janss, A.J.) **400**, 40

Spinal α_2 -adrenoceptor; Lateral hypothalamus; Tail-flick reflex; Descending inhibition (Aimone, L.D.) **403**, 290

Arterial pressure; Vascular resistance; Heart rate; Lateral reticular nucleus; Glutamate microinjection (Janss, A.J.) **405**, 140

Stimulation-secretion coupling

Pituitary gland; Neurohypophysis; Digital imaging technique; Neurosecretion; Exocytosis; Secretory granule; *Xenopus* (Terakawa, S.) **435**, 380

Stimulus coding

Crayfish; Tritocerebrum; Interneuron; Morphology; Classification (Tautz, J.) **407**, 230

Stochastic process

Aversion; Brain stimulation; Local neuronal circuitry; Mesencephalon; Periaqueductal gray; Rat; Spike train; Unit activity (Sandner, G.) **421**, 150

Stochastic stimulation

Synapse cell; Non-linear analysis; Synaptic facilitation; Synaptic

depression (Windhorst, U.) **408**, 289

Stomach

Bombesin; Celiac ganglion; Retrograde labeling; Immunohistochemistry (Hamaji, M.) **416**, 192

Stomatogastric ganglion

Bursting neuron; Oscillation; Potassium current; Lobster; Central pattern generator (Harris-Warrick, R.M.) **416**, 381

Stomatogastric nervous system

Neuropeptide; Small cardioactive peptide SCP_B; FMRFamide; Crustacean; Antibody (Callaway, J.C.) **405**, 295

Storage disease

Neurite; Plasticity; Lysosome; Swainsonine; Enzyme replacement therapy (Walkley, S.U.) **410**, 89

Strain difference

Neuronal number; Cell count; Neuronal cell death (Boss, B.D.) **406**, 280

Spinal nucleus of the bulbocavernosus; Genotype; House mouse; Castration; Motoneuron; Androgen (Wee, B.E.F.) **424**, 305

Stratum oriens

Ethanol; Hippocampus; Long-sleep mouse; Short-sleep mouse; Dendritic spine (Scheetz, A.J.) **409**, 329

Strength-duration

Spreading depression; Rat cortex; Cathodal stimulation (Reid, K.H.) **404**, 361

Streptozotocin

Aldose reductase; Axonal transport; Diabetes mellitus; Neuropathy; Substance P (Robinson, J.P.) **426**, 339

Streptozotocin diabetes

Monoamine metabolism; Hypothalamic nucleus (Bitar, M.S.) **409**, 236

Stress

Food deprivation; Frontal cortex; Mesocortical; Dopamine; Ventral tegmental area (Carlson, J.N.) **400**, 200

Oxytocin; Arginine-vasopressin; Noradrenaline; Ventral noradrenergic bundle; Sexual dimorphism (Carter, D.A.) **406**, 313

Periaqueductal grey; Stimulation; Analgesia; β -Endorphin; Opioid; Prolactin (Millan, M.J.) **407**, 199

Aging; Rat strain; Cholinergic index; Dopamine uptake (Gilad, G.M.) **408**, 247

Analgesia; Activity; Stress-induced analgesia; Calcium channel antagonist; Diltiazem; Nifedipine; Verapamil; BAY K 8644; Opioid analgesia (Kavaliers, M.) **408**, 403

Opioid analgesia; Non-opioid

- analgesia; Naloxone; ICI 154,129; β -Funaltrexamine (B-FNA); Snail; Evolution (Kavaliers, M.) **410**, 111
- γ -Aminobutyric acid receptor; Chloride ion channel; $^{36}\text{Cl}^-$ flux; Synaptoneurosome; Rat brain (Schwartz, R.D.) **411**, 151
- Benzodiazepine receptor; Adrenal steroid; Benzodiazepine (Miller, L.G.) **414**, 395
- Analgesia; Calcium channel antagonist; Phe-Met-Arg-Phe-NH₂ (FMRFamide); Morphine; Stress-induced analgesia; Immobilization; Naloxone; Opioid analgesia (Kavaliers, M.) **415**, 380
- Neurotensin; Ventral tegmental area; Dopamine; Somatostatin; Corticotropin-releasing factor (Deutch, A.Y.) **417**, 350
- Tuberoinfundibular neuron; Dopamine; Dihydroxyphenylacetic acid (DOPAC); Median eminence; Sex difference; Prolactin (Lookingland, K.J.) **419**, 303
- Ambient heating; Fever; Locus coeruleus; Noradrenergic neuron (Morilak, D.A.) **422**, 17
- Cardiovascular system; Locus coeruleus; Noradrenergic neuron (Morilak, D.A.) **422**, 24
- Blood glucose; Hypoglycemia; Insulin; Locus coeruleus; Noradrenergic neuron (Morilak, D.A.) **422**, 32
- Acetylcholine; Choline acetyltransferase; Acetylcholinesterase; Hippocampus; Hypothalamus (Fatranská, M.) **424**, 109
- Age; Retina; Photoreceptor; Hormone (O'Steen, W.K.) **426**, 37
- Self-stimulation; Nucleus accumbens; Genetic (Zacharko, R.M.) **426**, 164
- Muscarinic cholinergic receptor; Quinuclidinyl benzilate (QNB) binding; Supersensitivity; Regional response (Takayama, H.) **436**, 291
- Aging; Septohippocampal system; Cholinergic neuron; Pyramidal neuron; Rat strain (Gilad, G.M.) **436**, 311
- Glutamate; Mollusc; Feeding; Amino acid; Output; Modulation (Jones, P.G.) **437**, 56
- Stress ulcer**
Central amygdala; Neurotensin; Dopamine (Ray, A.) **409**, 398
- Stress-induced analgesia**
Analgesia; Activity; Stress; Calcium channel antagonist; Diltiazem; Nifedipine; Verapamil; BAY K 8644; Opioid analgesia (Kavaliers, M.) **408**, 403
- Analgesia; Calcium channel antagonist; Phe-Met-Arg-Phe-NH₂ (FMRFamide); Morphine; Stress; Immobilization; Naloxone; Opioid analgesia (Kavaliers, M.) **415**, 380
- Activity; Immobilization; Opioid analgesia; Naloxone; ICI 154, 129; Deer mice; *Peromyscus maniculatus*; Sex; Genetic; Island–Mainland population (Kavaliers, M.) **425**, 49
- Stretch reflex**
Long-latency reflex; Ischemic nerve block; Human forearm (Hayashi, R.) **403**, 341
- Purring; Intercoastal activity; Cross-correlation; Small amplitude vibration; Vocalization (Kirkwood, P.A.) **405**, 187
- Co-ordination; Cerebrovascular disease; Electromyogram (EMG) (Di Fabio, R.P.) **406**, 43
- Adaptation; Catching; Anticipation; Antagonist coactivation (Lacquaniti, F.) **406**, 373
- M₂ response; Preparation; Voluntary response (Sullivan, S.J.) **412**, 139
- Stria terminalis**
Action potential; Amygdala; Hypothalamus; Convergence (Dalsass, M.) **425**, 346
- Striatal lesion**
2-Deoxyglucose; Muscimol; Apomorphine (Kelly, P.A.T.) **425**, 290
- Striate area**
Visual cortex; Visual topography; Extrastriate area; Callosal connection; Microelectrode mapping; Horseradish peroxidase; Rat (Thomas, H.C.) **417**, 214
- Striate cortex**
Prestriate cortex; Area 19DM; Heterotopic interhemispheric connection; Primate (Spatz, W.B.) **403**, 158
- Striatonigral neuron**
 γ -Aminobutyric acid (GABA); Tissue culture; Corpus striatum; Tectum; Tegmentum; Immunocytochemistry; Synaptic interaction (Shalaby, I.A.) **402**, 68
- D₁ receptor; Substantia nigra; Neostriatum; Dopamine; Quinolinic acid; [^{125}I]SCH 23982; SCH 23390; Denervation (Altar, C.A.) **410**, 1
- Striatonigral pathway**
Axonal transport; Dopamine D₁ receptor; Quantitative autoradiography; ^{125}I -SCH 23982 (Aiso, M.) **426**, 392
- Striatum**
LY171555 (Quinpirole); Metoclopramide; Dopaminergic System Activity; Desoxycorticosterone acetate (DOCA)/NaCl-hypertensive rat; In vivo push-pull perfusion; High-performance liquid chromatography (HPLC) (Chen, Y.-F.) **400**, 225
- Compartment; Opiate receptor; [^3H]Thymidine; Development (Van der Kooy, D.) **401**, 155
- Amphetamine; Dopamine release; Intracerebral dialysis; Microdialysis; Stereotypy; Locomotor activity; Nucleus accumbens (Sharp, T.) **401**, 322
- Dopamine; 3,4-Dihydroxyphenylalanine (DOPA); NSD-1015; Tyrosine hydroxylase; Ventral tegmental area; Nucleus accumbens; Olfactory tubercle; Brain-stimulation reward; Food reward (Phillips, A.G.) **402**, 109
- Acute ethanol; Cerebral cortex; Hippocampus; Calcium channel (Rius, R.A.) **402**, 359
- Dopamine target cell supersensitivity; Dopaminergic denervation; Acetylcholine level; D₂-receptor (Paturle, L.) **402**, 383
- Olfactory tubercle; Pallidum; Mediodorsal nucleus; Horseradish peroxidase; Degeneration; Electron microscopy (Zahm, D.S.) **404**, 327
- Partial epilepsy; Premotor cortex; Substantia nigra; γ -Aminobutyric acid (GABA); Muscimol (Ono, K.) **405**, 183
- Thioridazine; Antipsychotic drug; Dopamine release; Nucleus accumbens; Dopamine cell firing (Lane, R.F.) **408**, 317
- Putamen; Caudate nucleus; Spinal trigeminal nucleus; Nociception; Wheat germ agglutinin–horseradish peroxidase (WGA-HRP); Horseradish peroxidase (HRP); Cat (Yasui, Y.) **408**, 334
- Mianserin; Citalopram; Dopamine release; Adrenoceptor; Nucleus accumbens (Russell, V.A.) **410**, 78
- Substance P; Tachykinin; Messenger RNA; Human brain (Chesselet, M.-F.) **410**, 83
- N-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP); Serotonin; Mouse; High-performance liquid chromatography (HPLC); Immunohistochemistry (Hara, K.) **410**, 371
- Caudate nucleus; Basal ganglia; [^{14}C]Deoxyglucose; Glucose utilization; Apomorphine; Dopamine (Brown, L.L.) **411**, 65
- Acetylcholine; Cholinesterase; Histochemistry; Huntington's disease (Ferrante, R.J.) **411**, 162
- Asymmetry; Basal ganglia; Circling; Dopamine; Hemispheric dominance; Laterality (Bracha, H.S.) **411**, 231
- 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP); Neurotensin receptor; Nigrostriatal

pathway; Receptor autoradiography; Substantia nigra; Monkey (Waters, C.M.) **412**, 244

Dopamine; Microdialysis; Interval feeding; Behavior; HPLC/EC (Church, W.H.) **412**, 397

Hemicholinium-3; Acetylcholinesterase; Receptor autoradiography; Acetylcholine; Striosome; Rabbit (Rhodes, K.J.) **412**, 400

α_2 -Adrenergic receptor; Cyclic adenosine monophosphate; Cortex; Neuron; Primary culture; Pertussis toxin (Weiss, S.) **414**, 390

Quinolinic acid; Excitotoxin; Neuropeptide Y; Basal ganglion; Rat; Immunohistochemistry (Boegman, R.J.) **415**, 178

Autoradiography; Adenosine receptor; Cerebral ischemia; Hippocampus; Muscarinic receptor; Septal nucleus (Onodera, H.) **415**, 309

Ethanolamine; Phosphoethanolamine; Alzheimer's disease; Huntington's disease; Cerebral cortex (Ellison, D.W.) **417**, 389

Entopeduncular nucleus; Habenula; Horseradish peroxidase; Fluorescent retrograde double labeling; Rat (Takada, M.) **418**, 129

Calcitonin gene-related peptide; Substance P; Quinolinic acid; Kainic acid; Immunohistochemistry; Cat (Sugimoto, T.) **418**, 392

5,6-Dihydroxytryptamine; Para-chloroamphetamine; Serotonin; Neurotoxicity; Hippocampus; Somatosensory cortex (Commins, D.L.) **419**, 253

D₁-receptor; Adenylate cyclase; Cyclic AMP; Superior cervical ganglion; Dopamine (Ariano, M.A.) **421**, 245

Circling behavior; Colchicine; Apomorphine; Methamphetamine; Degenerative atrophy (Kamata, K.) **421**, 353

Substance P; Dopamine receptor subtype; Sulpiride; SCH 23390; Selective regulation; Substantia nigra; Progabide (Oblin, A.) **421**, 387

Weaver mutant mouse; Dopamine; Dopamine D₂ receptor binding assay; [³H]Spiperone; Nucleus accumbens; Supersensitivity (Kaseda, Y.) **422**, 178

Lys⁸-Asn⁹-Neurotensin(8–13); Neuromedin N; Basal ganglion; Globus pallidus; Monkey; Immunohistochemistry (Reiner, A.) **422**, 186

1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP); Terminal degeneration; Nigrostriatal; Dopamine; Mosaic; Fink–Heimer; Dog

(Wilson, J.S.) **423**, 329

Rotation; Amphetamine; 6-Hydroxydopamine; Dopamine; Serotonin; Lateralization (Shapiro, R.M.) **426**, 323

Partial epilepsy; Premotor cortex; γ -Aminobutyric acid (GABA); Glutamate; Acetylcholine (Ono, K.) **435**, 84

Weaver mutant mouse; Nigral transplant; Dopamine; Rotational behavior; Functional recovery; Parkinson disease (Low, W.C.) **435**, 315

Substantia nigra pars compacta; Caudate nucleus; Putamen; Striosome; Acetylcholinesterase; Dopamine; Tyrosine hydroxylase (Jimenez-Castellanos, J.) **437**, 349

Iminodipropionitrile; ECC-syndrome; ¹²⁵I-LSD binding site; 5-HT-2 receptor; Frontal cortex; Nucleus accumbens; Autoradiography (Cadet, J.L.) **437**, 383

Striosome

Dopamine receptor; [³H]*N-n*-propylnorapomorphine; Dipping autoradiography; Acetylcholinesterase histochemistry; In vivo ligand binding (Loopuijt, L.D.) **405**, 405

Hemicholinium-3; Acetylcholinesterase; Receptor autoradiography; Striatum; Acetylcholine; Rabbit (Rhodes, K.J.) **412**, 400

Substantia nigra pars compacta; Striatum; Caudate nucleus; Putamen; Acetylcholinesterase; Dopamine; Tyrosine hydroxylase (Jimenez-Castellanos, J.) **437**, 349

Stroke model

Embolism; Cerebral ischemia; Microsphere; Pharmacology; Cyproheptadine (Zivin, J.A.) **435**, 305

Structure

Purified insulin receptor; Bovine peripheral nervous system; Phosphorylation; Paleocortex; Liver; Superior cervical ganglion; Trigeminal ganglion; Function (Waldbillig, R.J.) **409**, 215

Structure–activity relationship

Substance P; Neurokinin A; Substance K; Tachykinin; Motor behavior (Hall, M.E.) **420**, 82

Strychnine

γ -Aminobutyric acid (GABA); Glycine; Dorsal cochlear nucleus (Caspary, D.M.) **417**, 273

Subarachnoid hemorrhage

Blood flow; Intracranial pressure; Lipid peroxidation; Vitamin E (Travis, M.A.) **418**, 366

Subcellular distribution

Prolactin; Hypothalamus;

Synaptosome; Acetylcholinesterase (Emanuele, N.V.) **407**, 223

Subcellular fraction

Phospholipid methylation; In vivo; Phosphatidylcholine; S-adenosylmethionine (Lakher, M.) **419**, 131

Subchronic treatment

Lisuride; Dopamine autoreceptor; A10 neuron (Mereu, G.) **408**, 210

Subcommissural organ

Circumventricular organ; Aldosterone; Catecholamine; Sodium excretion; Eating; Drinking behavior (Dundore, R.L.) **401**, 122

Subcortical cholinergic cell

Thyroid deficiency; Choline acetyltransferase; Regional development; Rehabilitation (Patel, A.J.) **422**, 182

Subfornical organ

Angiotensin II; Receptor autoradiography; Hypothalamus; Salt gland; Receptor up-regulation; Pekin duck (Gerstberger, R.) **400**, 165

Angiotensin II; Supraoptic nucleus; Anteroventral third ventricle; Brain slice (Okuya, S.) **402**, 58

Zona incerta; Medial preoptic area; Angiotensin II; Osmoreceptor; Thirst; Extracellular single-unit recording (Mok, D.) **407**, 332

Subgroup

C₃–C₅ propriospinal neurone; Input; Regulation hindlimb tonus (Alstermark, B.) **404**, 395

Subiculum

Columnar organization; Hippocampus; CA₁ pyramidal neuron; Axonal arborization; Horseradish peroxidase (HRP); Computer analysis (Tamamaki, N.) **412**, 156

Neurofilament; Human; Neocortex; Entorhinal cortex; Dementia; Neurofibrillary tangle (Morrison, J.H.) **416**, 331

Hippocampus; Dentate gyrus; Fast-spiking cell; Non-pyramidal cell (Kawaguchi, Y.) **425**, 351

Hippocampus; Asymmetry; Apodemus; Timm's stain (Slomianka, L.) **436**, 69

Subnucleus caudalis

Spinal trigeminal nucleus; Subnucleus oralis; Tooth pulp; Enkephalin; Naloxone; Inhibition (Ujihara, H.) **418**, 52

Subnucleus oralis

Spinal trigeminal nucleus; Subnucleus caudalis; Tooth pulp; Enkephalin; Naloxone; Inhibition (Ujihara, H.) **418**, 52

Subpopulation

Human brain; Somatostatin receptor;

- Cortex; Somatostatin-28; SMS 201-995 (Reubi, J.C.) **406**, 391
- Retinal bipolar cell; Monoclonal antibody; MAb 5A10; Cell-surface antigen; Frog; Vertebrate (Onoda, N.) **416**, 359
- Substance K**
Substance P; Neurokinin A; Tachykinin; Motor behavior; Structure–activity relationship (Hall, M.E.) **420**, 82
- Substance P; Tachykinin; Hippocampus; Neuropeptide; Limbic system (Shults, C.W.) **426**, 290
- Substance P**
Ascorbic acid; Dopamine; Methamphetamine; Serotonin (Matsuda, L.A.) **400**, 176
- Lamina X; Serotonin; Enkephalin; True blue; Hemisection; Dorsal rhizotomy (Nahin, R.L.) **401**, 292
- Double staining; Mirror technique; Nigrostriatal; Synaptic interaction; Tyrosine hydroxylase (Kawai, Y.) **401**, 371
- Serotonin; Neuromedin K; Release; Cerebral cortex; Spantide (Solti, M.) **401**, 377
- Trigeminal ganglion; Forebrain cerebral vessel; Pia arachnoid; Capsaicin; Superior cervical ganglion; 5-Hydroxydopamine (Saito, K.) **403**, 66
- Calcitonin gene-related peptide; Spinal dorsal horn; Capsaicin-induced release; Noxious pinch; Aversive reaction (Oku, R.) **403**, 350
- Brainstem; Human; Adult; Immunocytochemistry (Nomura, H.) **404**, 365
- Calcitonin gene-related peptide; Cholecystokinin; Eye; Sensory innervation; Trigeminal ganglion; Guinea pig; Cholera toxin B subunit; Retrograde axonal transport; Immunohistochemistry (Kuwayama, Y.) **405**, 220
- Tachykinin; Messenger RNA; Human brain; Striatum (Chesselet, M.-F.) **410**, 83
- Met-enkephalin; Leu-enkephalin; Cholecystokinin; Dopamine; Postmortem; Human brain; Progressive supranuclear palsy (Taquet, H.) **411**, 178
- Olfactory bulb; γ -Aminobutyric acid (GABA); Glomerular cell layer; Electrophysiology; Slice (Olpe, H.R.) **412**, 269
- Choline acetyltransferase; Acetylcholinesterase; Somatostatin (Martínez, H.J.) **412**, 295
- Dopamine; Enkephalin; Dorsal striatum; Ventral striatum; Immunoreactivity pattern (Voorn, P.) **412**, 391
- Nucleus tractus solitarius; Substance P antagonist; Blood pressure; Heart rate; Rat (Kubo, T.) **413**, 379
- Calcitonin gene-related peptide; Somatostatin; Sensory neuron; Skin; Human; Immunofluorescence (Gibbins, I.L.) **414**, 143
- Tachykinin; Avian sympathetic ganglion; Intracellular recording; Slow synaptic potential; M-current; Autonomic pharmacology (Ramirez, O.A.) **414**, 228
- Thyrotropin-releasing hormone; Serotonin; Coexistence; Immunohistochemistry; Intermediolateral cell column; Preganglionic; Sympathetic outflow (Appel, N.M.) **415**, 137
- Substance P antibody; Anti-idiotypic antibody; Substance P receptor (Swenberg, M.-L.) **417**, 131
- Ventral medulla; Retrograde transport; Rhodamine-labeled latex microsphere; Nucleus reticularis paragigantocellular lateralis; Intermediolateral cell column (Charlton, C.G.) **418**, 245
- Interpeduncular nucleus; Fasciculus retroflexus; Choline acetyltransferase; Serotonin; Cytochrome oxidase; Bodian stain; Plasticity; Development (Barr, G.A.) **418**, 301
- Calcitonin gene-related peptide; Quinolinic acid; Kainic acid; Striatum; Immunohistochemistry; Cat (Sugimoto, T.) **418**, 392
- Neurokinin A; Substance K; Tachykinin; Motor behavior; Structure–activity relationship (Hall, M.E.) **420**, 82
- Bed nucleus of the stria terminalis; Sex difference; Immunocytochemistry (Malsbury, C.W.) **420**, 365
- Dopamine receptor subtype; Sulpiride; SCH 23390; Selective regulation; Striatum; Substantia nigra; Progabide (Oblin, A.) **421**, 387
- Blood pressure regulation; Nucleus tractus solitarius; Capsaicin; (D-Pro^2 , $\text{D-Trp}^{7,9}$)-substance P (Luković, L.) **422**, 312
- Enkephalin; Immunohistochemistry; Immunofluorescence; Coexistence; Spinal cord; Cat (Tashiro, T.) **424**, 391
- Presynaptic Ca^{2+} channel; Morphine withdrawal; Withdrawal jumping (Ueda, H.) **425**, 101
- Enkephalin; Coexistence; Hypothalamus; Rat (Shimada, S.) **425**, 256
- Substance K; Tachykinin; Hippocampus; Neuropeptide; Limbic system (Shults, C.W.) **426**, 290
- Aldose reductase; Axonal transport; Diabetes mellitus; Neuropathy; Streptozotocin (Robinson, J.P.) **426**, 339
- Capsaicin; Sensory nerve terminal; Rat urinary bladder; Neuropeptide (depletion from sensory nerves); Capsaicin desensitization (Maggi, C.A.) **436**, 402
- Circadian; Neurotensin; Radioimmunoassay (Albers, H.E.) **437**, 189
- (D-Pro^2 , $\text{D-Trp}^{7,9}$)-substance P
Substance P; Blood pressure regulation; Nucleus tractus solitarius; Capsaicin (Luković, L.) **422**, 312
- Substance P antagonist**
Substance P; Nucleus tractus solitarius; Blood pressure; Heart rate; Rat (Kubo, T.) **413**, 379
- Substance P antibody**
Substance P; Anti-idiotypic antibody; Substance P receptor (Swenberg, M.-L.) **417**, 131
- Substance P receptor**
Substance P; Substance P antibody; Anti-idiotypic antibody (Swenberg, M.-L.) **417**, 131
- Substance P release**
Noxious heat; Substantia gelatinosa (Duggan, A.W.) **403**, 345
- Substantia gelatinosa**
Substance P release; Noxious heat (Duggan, A.W.) **403**, 345
- Locus coeruleus; *Phaseolus vulgaris* leucoagglutinin (PHA-L); Spinal cord; Noradrenergic axon (Fritschy, J.-M.) **437**, 176
- Substantia innominata**
Ventral pallidum; Mediodorsal nucleus of the thalamus; Motor control; Horseradish peroxidase; Electrophysiology (Mogenson, G.J.) **404**, 221
- Acetylcholinesterase staining; Alzheimer's disease; Senile plaque; Cortex (Tago, H.) **406**, 363
- Descending pathway; Diagonal band of Broca; *Phaseolus vulgaris* leucoagglutinin (Tomimoto, H.) **425**, 248
- Substantia nigra**
Neuronal hypertrophy; Retrograde cell degeneration; Globus pallidus (Pearson, R.C.A.) **400**, 127
- Globus pallidus; Dopamine; Autoreceptor; Dopamine agonist; D_1 receptor; D_2 receptor; Single unit recording (Carlson, J.H.) **400**, 205
- Aging; Caudate nucleus; Neurophysiology; Basal ganglion; Cat (Levine, M.S.) **401**, 213
- Weaver mutant mouse; Ventral tegmental area; Locus coeruleus;

Tyrosine hydroxylase;
Immunocytochemistry (Gupta, M.)
402, 379

Aging; Parkinson's disease;
Neurotoxicity; Dopamine; Cell
degeneration (Ricaurte, G.A.) **403**, 43

1-Methyl-4-phenyl-1,2,3,6-
tetrahydropyridine (MPTP);
Catecholamine; Neurotoxicity; Mice
(Sundström, E.) **405**, 26

Superior colliculus; Pulvinar-lateralis
posterior complex; Kainic acid; Turning
behavior (Motles, E.) **405**, 165

Partial epilepsy; Premotor cortex;
Striatum; γ -Aminobutyric acid
(GABA); Muscimol (Ono, K.)
405, 183

Dynorphin; Kindling; Seizure
(Bonhaus, D.W.) **405**, 358

D-1 dopamine receptor; [125 I]SCH
23982; Caudate nucleus
(Yamamoto, T.) **407**, 398

Dopamine receptor; D₁ receptor;
SCH-23390; Ibotenic acid;
6-Hydroxydopamine; Autoradiography
(Filloux, F.M.) **408**, 205

Quantitative autoradiography;
Dopamine receptor; Brain dopamine;
Caudate putamen; Nucleus accumbens;
Olfactory tubercle (Aiso, M.) **408**, 281

Striatonigral neuron; D₁ receptor;
Neostriatum; Dopamine; Quinolinic
acid; [125 I]SCH 23982; SCH 23390;
Denervation (Altar, C.A.) **410**, 1

Dopamine autoreceptor; Pertussis
toxin; Adenylate cyclase (Innis, R.B.)
411, 139

Antinociception; Morphine; Opioid
peptide (Baumeister, A.A.) **411**, 183

1-Methyl-4-phenyl-1,2,3,6-
tetrahydropyridine (MPTP);
Neurotensin receptor; Nigrostriatal
pathway; Receptor autoradiography;
Striatum; Monkey (Waters, C.M.)
412, 244

γ -Vinyl γ -aminobutyric acid (GVG);
Thermocoagulative lesion;
N-Methyl-D,L-aspartate (NMDA);
Kindling development; Epileptogenesis
(Shin, C.) **412**, 311

γ -Aminobutyric acid;
Immunohistochemistry; Superior
colliculus; Ventromedial nucleus;
Neuronal hypertrophy; Axonal
sprouting (Pearson, R.C.A.) **412**, 352

Antipsychotic drug; Schizophrenia;
Dopamine; Dopamine neuron; Ventral
tegmental area (Hand, T.H.) **415**, 257

Crossed nigrostriatal projection;
Crossed mesostriatal projection;
Ventral tegmental decussation;
Horseradish peroxidase;
6-Hydroxydopamine (Douglas, R.)
418, 111

Substance P; Dopamine receptor
subtype; Sulpiride; SCH 23390;
Selective regulation; Striatum;
Progabide (Oblin, A.) **421**, 387

Pedunculopontine nucleus;
Decortication (Scarnati, E.) **423**, 116

Benzodiazepine; Clonazepam;
Kindling; Seizure; Anticonvulsant
(King, P.H.) **423**, 261

α -Kainic acid;
 γ -D-Glutamylaminomethylsulphonic
acid; Caudate-putamen; Muscle tone;
Catalepsy; Turning; Electromyogram;
6-Hydroxydopamine; Ibotenic acid
(Turski, L.) **424**, 37

γ -Aminobutyric acid (GABA); GABA
receptor; Chronic haloperidol;
Supersensitivity; Microiontophoresis;
Glycine (Frey, J.M.) **425**, 73

Horseradish peroxidase; Wheat germ
agglutinin; Anterograde degeneration;
Electron microscopy; Superior
colliculus; Spinal cord; Cat
(Tokuno, H.) **436**, 76

Neutral endopeptidase; Opioid
receptor; Caudate putamen; Globus
pallidus; Kainic acid; Colchicine;
6-Hydroxydopamine (Waksman, G.)
436, 205

Substantia nigra lesion

Nicotine; Dopamine metabolism;
Reverse tolerance; Caudate nucleus;
Nucleus accumbens; Hypothermia;
Stereotypy (Lapin, E.P.) **407**, 351

Substantia nigra pars compacta

Ventral tegmental area; Occipital
cortex; Forebrain; Neuroanatomical
differentiation; Horseradish peroxidase;
Retrograde double labeling; Rat
(Takada, M.) **418**, 27

Striatum; Caudate nucleus; Putamen;
Striosome; Acetylcholinesterase;
Dopamine; Tyrosine hydroxylase
(Jimenez-Castellanos, J.) **437**, 349

Substantia nigra pars reticulata

6-Hydroxydopamine; Nigrostriatal
lesion; Dopamine; D₁-receptor;
D₂-receptor; Single unit recording
(Weick, B.G.) **405**, 234

Dentate granule cell; Population spike;
NMDA (*N*-methyl-D,L-aspartate);
Limbic system excitability; Basal
ganglia (Shin, C.) **411**, 21

Substantia nigra zona compacta

BALB/c mouse strain; CBA mouse
strain; Ventral tegmental area;
Caudate; Met-Enkephalin;
Micropunch; Radioimmunoassay
(Sanghera, M.K.) **412**, 200

Substantia nigra, pars compacta

Paraventricular nucleus; Axon
branching; Pituitary stalk; Antidromic;
Latency jump (Klemfuss, H.) **409**, 197

Subthalamic locomotor region

Hypothalamus; Preoptic area

projection (Swanson, L.W.) **405**, 108

Subthalamic nucleus

Bilateral decortication; Glutamate
hypersensitivity; Microiontophoresis
(Rouzaire-Dubois, B.) **403**, 366

Spinal cord; Globus pallidus;
Extrapyramidal system; Basal ganglia;
Retrograde fluorescent labeling; Rat
(Takada, M.) **436**, 129

Subthalamonigral input

Rat substantia nigra neuron; Slice
preparation; Intracellular recording;
Membrane property (Nakanishi, H.)
437, 45

Subthalamonigral projection

Basal ganglia; Primate;
Subthalamopallidal projection;
Subthalamostriatal projection; Axonal
branching; Retrograde double-labeling
technique (Parent, A.) **436**, 296

Subthalamopallidal projection

Basal ganglia; Primate;
Subthalamostriatal projection;
Subthalamonigral projection; Axonal
branching; Retrograde double-labeling
technique (Parent, A.) **436**, 296

Subthalamostriatal projection

Basal ganglia; Primate;
Subthalamopallidal projection;
Subthalamonigral projection; Axonal
branching; Retrograde double-labeling
technique (Parent, A.) **436**, 296

Subthalamus

Neurotensin; Immunocytochemistry;
Human infant; Thalamus;
Hypothalamus (Sakamoto, N.) **403**, 31

Rat adrenal medulla; Adrenal
medullary secretion; Epinephrine
secretion; Norepinephrine secretion;
Zona incerta (Matsui, H.) **417**, 158

α -Subunit

Insulin receptor; Norepinephrine
uptake; Neuron; Phosphorylation;
 β -Subunit (Masters, B.A.) **417**, 247

β -Subunit

Insulin receptor; Norepinephrine
uptake; Neuron; Phosphorylation;
 α -Subunit (Masters, B.A.) **417**, 247

Succinate dehydrogenase

Cytochrome oxidase; Rat; Mouse;
Neocortex; Sensory map
(Wallace, M.N.) **418**, 178

Suckling pheromone

Odor processing; Spatial coding;
2-Deoxyglucose; Olfactory bulb;
Olfactory epithelium; Odor learning;
Newborn rabbit (Hudson, R.) **421**, 85

Suckling stimulus

Oxytocin cell; Milk ejection; Vaginal
distension; Paraventricular nucleus
(Negoro, H.) **404**, 371

Sucrose gap

5-Hydroxytryptamine; Temperature;
Vagal afferent; Rat (Pike, G.K.)
413, 388

Sucrose-gap

Sympathetic ganglion; Slow inhibitory postsynaptic potential (IPSP); Slow excitatory postsynaptic potential (EPSP); Muscarinic receptor; Bullfrog (Yavari, P.) **400**, 133

Sulfatide

Schwann cell line; Simian virus 40 (SV40) transformation; Myelin-protein; P_0 protein; P_0 mRNA; Myelin-associated glycoprotein; 2',3'-Cyclic nucleotide 3'-phosphodiesterase; Galactocerebroside (Chen, G.L.) **414**, 35

Sulphydryl reagent

Dithiothreitol; Epileptiform activity; Hippocampus; Radioprotectant (Tolliver, J.M.) **404**, 133

Sulpiride

Prolactin; Apomorphine; Dopamine; Adrenal gland; Sodium (Collu, R.) **401**, 23

Clonidine; Isoproterenol; Apomorphine; Thyrotropin secretion; Yohimbine; Propranolol; Phentolamine (Jaffer, A.) **404**, 267

Defence reaction; Dopaminergic system; Ventromedial hypothalamus; A10 region; Inhibition (Piazza, P.V.) **413**, 356

Substance P; Dopamine receptor subtype; SCH 23390; Selective regulation; Striatum; Substantia nigra; Progabide (Oblin, A.) **421**, 387

Neurotensin; Methamphetamine; Dopamine; SCH 23390 (Letter, A.A.) **422**, 200

[³H]Sulpiride

D_2 Dopamine receptor; Sodium ion; Magnesium ion; Temperature; Guanine nucleotide; Ni protein; Ternary complex model (Imafuku, J.) **402**, 331

Summation

Electrical stimulation; Circling; Head turn; Body curvature; Refractory period; Anteromedial cortex; Medial pons (Tehovnik, E.J.) **407**, 240

Superfusion

Antinociception; Nucleus raphe magnus; Norepinephrine; Serotonin; Spinal cord; Neurotransmitter release (Sagen, J.) **406**, 246

Pregnanolone; Luteinizing hormone-releasing hormone (LH-RH); Hypothalamus; Push-pull perfusion; Rat (Park, O.-K.) **437**, 245

Superior cervical ganglion

Substance P; Trigeminal ganglion; Forebrain cerebral vessel; Pia arachnoid; Capsaicin; 5-Hydroxydopamine (Saito, K.) **403**, 66

Medial septal lesion; Peripheral sympathetic nervous system; Body weight; Feeding; Drinking

(Harrell, L.E.) **408**, 131

Purified insulin receptor; Bovine peripheral nervous system; Phosphorylation; Paleocortex; Liver; Trigeminal ganglion; Structure; Function (Waldbillig, R.J.) **409**, 215

Calmodulin; Axotomy (Seto-Ohshima, A.) **410**, 292

Immunocytochemistry; 3',5'-Cyclic guanosine monophosphate; Rat (De Vente, J.) **411**, 120

Sympathetic nerve; Bilateral innervation; Spontaneously hypertensive rat; Hypertension; Thalamus; Autoregulation (Sadoshima, S.) **413**, 297

Enkephalin; Small intensely fluorescent cell; Immunocytochemistry; Guinea pig (Matsuyama, T.) **418**, 325

D_1 -receptor; Adenylate cyclase; Cyclic AMP; Striatum; Dopamine (Ariano, M.A.) **421**, 245

Corticotropin-releasing factor (CRF); Preganglionic fiber; Immunocytochemistry (Wanaka, A.) **435**, 91

Sympathetic nerve; Pineal gland; Cerebral blood vessel; Wheat germ agglutinin-horseradish peroxidase (WGA-HRP) (Tamamaki, N.) **437**, 387

Superior colliculus

Substantia nigra; Pulvinar-lateralis posterior complex; Kainic acid; Turning behavior (Motles, E.) **405**, 165

Somatosensory; Direction sensitivity; Cat; Tactile (Clemo, H.R.) **405**, 313

Saccade; Eye movement; Burst neuron (Peck, C.K.) **408**, 329

Axon guidance; Retina; Cortex; Xenograft; Allograft (Hankin, M.H.) **408**, 344

Optic tract; Lateral geniculate nucleus; Retina; Dipeptide; Immunohistochemistry; High-performance liquid chromatography (Anderson, K.J.) **411**, 172

γ -Aminobutyric acid; Immunohistochemistry; Substantia nigra; Ventromedial nucleus; Neuronal hypertrophy; Axonal sprouting (Pearson, R.C.A.) **412**, 352

Pons; Cuneiform area; Tectopontine; Retrograde double-labelling (Redgrave, P.) **413**, 170

Tectospinal cell; Collicular commissure; Predorsal bundle; Rat; Hamster (Sahibzada, N.) **415**, 242

Auditory input; Horseradish peroxidase; Bat (Zhang, S.) **416**, 375

Cerebellum; Medial accessory olive; Climbing fiber response; Lobulus simplex; Rat (Akaike, T.) **417**, 371

Sensorimotor integration; Multisensory interaction; Premotor discharge; Saccadic eye movement (Peck, C.K.) **420**, 162

Dorsal lateral geniculate nucleus; Ventral lateral geniculate nucleus; Nucleus lateralis posterior; Parabigeminal nucleus; Pretectal area (Lugo-Garcia, N.) **426**, 131

Horseradish peroxidase; Wheat germ agglutinin; Anterograde degeneration; Electron microscopy; Substantia nigra; Spinal cord; Cat (Tokuno, H.) **436**, 76

Superior olivary complex

Abducens nucleus; Choline acetyltransferase; Leucine enkephalin; Olivocochlear bundle; Periolivary nucleus; Vestibular efferent neuron (Carpenter, M.B.) **408**, 275

Single unit activity; Auditory brainstem response (ABR); Timing of unit discharge; Timing of the ABR component; Latency/intensity function (Kano, Y.) **419**, 262

Superoxide dismutase

Body temperature range; Heat stress; Thermal loading (Fishman, R.H.B.) **410**, 343

Supersensitivity

Lateral reticular nucleus; Locus coeruleus/subcoeruleus; Stimulation-produced antinociception; Descending inhibition; Norepinephrine depletion; 6-Hydroxydopamine (6-OHDA); α_2 -Adrenoceptor up-regulation (Janss, A.J.) **400**, 40

β -Adrenergic receptor; Norepinephrine; Morphine dependence; Withdrawal; Parietal cortex; Receptor binding; Microiontophoresis (Moises, H.C.) **400**, 110

Hippocampus; Serotonin; Regeneration; Fimbria; Fornix (Lombardi, G.) **411**, 275

Dopamine; γ -Aminobutyric acid (GABA); Apomorphine; Basal ganglion; Sham-fighting behavior (Sivam, S.P.) **412**, 29

Weaver mutant mouse; Dopamine; Dopamine D_2 receptor binding assay; [³H]Spiperone; Striatum; Nucleus accumbens (Kaseda, Y.) **422**, 178

γ -Aminobutyric acid (GABA); GABA receptor; Substantia nigra; Chronic haloperidol; Microiontophoresis; Glycine (Frey, J.M.) **425**, 73

Stress; Muscarinic cholinergic receptor; Quinuclidinyl benzilate (QNB) binding; Regional response (Takayama, H.) **436**, 291

Supplementary motor cortex

Premotor cortex; Arm movement; Motor control (Rea, G.L.) **418**, 58

Suppression

Nervus terminalis; Elasmobranch;

Efferent impulse; Ganglion activity (White, J.) **400**, 159

Suprachiasmatic nuclei lesion

Cortical transplant; Diurnal rhythms; Central nervous system plasticity (García-Hernández, F.) **418**, 193

Suprachiasmatic nucleus

Cholecystokinin; Forebrain; Hamster; Hypothalamus; Paraventricular nucleus (Miceli, M.O.) **402**, 318

Circadian rhythm; Biological clock; Acetylcholine; Entrainment (Keefe, D.L.) **403**, 308

Parturition; Circadian rhythm; Fetus (Reppert, S.M.) **403**, 398

α -Bungarotoxin; Circadian rhythm; Receptor autoradiography; Hypothalamus; Light-dark cycle; Acetylcholine (Fuchs, J.L.) **407**, 9

Ontogenesis; Peptide-histidine-isoleucine (PHI)-containing neuron; Hypothalamus (Ishikawa, K.) **407**, 144

Aging; Circadian rhythm; Enriched environment; Male rat; Morphometry; Vasopressin (Roozendaal, B.) **409**, 259

Retinohypothalamic tract; Hypothalamic slice; Excitatory amino acid; Kynurenate; Acetylcholine (Cahill, G.M.) **410**, 125

Circadian rhythm; Immunocytochemistry; Intergeniculate leaflet; Neuropeptide Y; Ventral lateral geniculate nucleus (Harrington, M.E.) **410**, 275

Hypothalamus; Unit activity; Arousal state (Glotzbach, S.F.) **419**, 279

Circadian rhythm; Pacemaker; Vasopressin; Organ culture (Earnest, D.J.) **422**, 398

Adrenocorticotrophic hormone (ACTH); Circadian rhythm lesion; Rat (Cascio, C.S.) **423**, 173

Circadian rhythmicity; Deoxyglucose; Energy metabolism; Albino rat; Squirrel monkey (Schwartz, W.J.) **424**, 249

Circadian rhythm; 2-Deoxyglucose method; Calcium (Shibata, S.) **426**, 332

Autoradiography; Melatonin receptor; 125 I-Melatonin; Hypothalamus; Median eminence (Vaněček, J.) **435**, 359

Supraoptic neuron

Noradrenaline; α -Receptor; Intracellular recording; Brain slice (Yamashita, H.) **405**, 348

Cell culture; Voltage clamp; Na-current; Ba-current (Cobbett, P.) **409**, 175

Supraoptic nucleus

Angiotensin II; Subfornical organ; Anteroventral third ventricle; Brain slice (Okuya, S.) **402**, 58

γ -Aminobutyric acid (GABA); Hypothalamus; Brain slice; Neurosecretion; Baclofen (Ogata, N.) **403**, 225

Capillary density; Paraventricular nucleus; Magnocellular neuron; Parvocellular neuron; Pituitary neural lobe; Brattleboro rat (Sposito, N.M.) **403**, 375

Ventromedial hypothalamus; Zucker rat; Brown adipose tissue; Sympathetic efferent; Lateral hypothalamus; Dorsomedial nucleus (Holt, S.J.) **405**, 227

Oxytocin; Oxytocin neuron; Oxytocin analogue; Brain slice (Yamashita, H.) **416**, 364

Immunoglobulin; Neuroendocrine cell; Paraventricular nucleus; Lysosome; Immune-nervous system interaction (Mecker, M.L.) **423**, 45

Norepinephrine; Hypothalamus; Lamina terminalis; Median preoptic nucleus; Vasopressin; Fluid balance; α -Methyl tyrosine (Wilkin, L.D.) **423**, 369

Supraspinal control

Spinal cord; Transection; Pudendal nerve; Evoked response; Lordosis; Cutaneous reflex (Cohen, M.S.) **401**, 103

Sural nerve

Capsaicin; Spinal cord; Dorsal horn; Somatosensory system; Afferent fiber (Tattersall, J.E.H.) **416**, 337

Surface glycoprotein

Pathway selection; Axonal regeneration; *Hirudo medicinalis* (Peinado, A.) **410**, 330

Axon fasciculation; Leech; Peripheral nervous system (Peinado, A.) **410**, 335

Surface membrane molecule

Schwann cell; Monoclonal antibody; Cyclic AMP; Myelination (Rostami, A.) **425**, 205

Surround excitability

Retina; Horizontal cell; Receptive field; Ganglion cell; Rabbit (Mangel, S.C.) **414**, 182

Survival rate

Brain injury; Brain ischemia; Anesthetic; Pentobarbital; Ketamine (Shimoji, K.) **408**, 385

Swainsonine

Neurite; Plasticity; Lysosome; Storage disease; Enzyme replacement therapy (Walkley, S.U.) **410**, 89

Swelling

Brain cortex; Kainic acid; Neurotoxicity; Pyknosis; Calcium; Chloride; Cytoskeleton (Berdichevsky, E.) **423**, 213

Sympathetic cardioacceleration

Sympathetic preganglionic axon;

Neuropeptide; Neuropeptide depletion; Neurotensin; Leucine-enkephalin; Non-cholinergic ganglionic transmission (Bachoo, M.) **400**, 377

Sympathetic efferent

Injury; Hyperalgesia; Neurogenic inflammation; Spinal hyperactivity; C-Fiber afferent; Autotomy; Contralateral foot-withdrawal (Coderre, T.J.) **404**, 95

Ventromedial hypothalamus; Zucker rat; Brown adipose tissue; Supraoptic nucleus; Lateral hypothalamus; Dorsomedial nucleus (Holt, S.J.) **405**, 227

Sympathetic ganglion

Sucrose-gap; Slow inhibitory postsynaptic potential (IPSP); Slow excitatory postsynaptic potential (EPSP); Muscarinic receptor; Bullfrog (Yavari, P.) **400**, 133

Kappa-bungarotoxin; Neuronal nicotinic receptor; Autonomic pharmacology; Chick embryo; Ciliary ganglion; α -Bungarotoxin (Chiappinelli, V.A.) **402**, 21

Transmitter; Tissue culture; Steroid antagonist (Hendry, I.A.) **402**, 264

Spontaneously hypertensive rat (SHR); Neurochemistry; Neuropeptide; Dopamine; Cyclic nucleotide (Ariano, M.A.) **415**, 115

White ramus; Cervical sympathetic trunk; Postganglionic cardiac nerve; Evoked potential (Szulczyk, A.) **421**, 127

Neuropeptide receptor; Renin angiotensin system; Peripheral sympathetic system; Receptor autoradiography (Castrén, E.) **422**, 347

Sympathetic nerve

Superior cervical ganglion; Bilateral innervation; Spontaneously hypertensive rat; Hypertension; Thalamus; Autoregulation (Sadoshima, S.) **413**, 297

Superior cervical ganglion; Pineal gland; Cerebral blood vessel; Wheat germ agglutinin-horseradish peroxidase (WGA-HRP) (Tamamaki, N.) **437**, 387

Sympathetic nerve discharge

Cross-correlation; Hypothalamus; Raphe; Reticular formation; Short time scale interaction; Spike-triggered averaging (Gebber, G.L.) **410**, 106

Sympathetic nervous system

Bombesin; Dopamine β -hydroxylase; 1-Cyclohexyl-2-mercapto-imidazole; Norepinephrine turnover; Cold exposure (Brown, M.) **400**, 35

γ -Aminobutyric acid; Bicuculline; 3-Mercaptopropionic acid; Muscimol; Isoniazid; Hypothalamus; Heart rate; Blood pressure (DiMicco, J.A.) **402**, 1

Vasoconstriction; Pituitary; Brainstem; Cardiovascular signal; Periaqueductal gray; Dorsal rostral pons (Ward, D.G.) **407**, 369

Prostaglandin E₂; Prostaglandin F_{2α}; Intracerebroventricular; Pressor; Tachycardia; Anaesthetised cat (Rao, T.S.) **435**, 7

Neuromuscular spindle; Motor activity (Grassi, C.) **435**, 15

Nociceptor; C-fiber; Pain; Ephapse; Gap junction; Electrotonic; Reflex sympathetic dystrophy (Meyer, R.A.) **437**, 181

Sympathetic neuron

Calcitonin gene-related peptide fiber; Sensory fiber; Synaptic contact; Immunoelectron microscopy (Lee, Y.) **407**, 149

C-fibre; Conduction velocity; Axotomy; Autonomic ganglion; Frog (Shapiro, J.) **410**, 186

Catecholamine; Slow synaptic potential; Spinal cord; Potassium conductance (Yoshimura, M.) **419**, 383

Sympathetic outflow

Thyrotropin-releasing hormone; Serotonin; Substance P; Coexistence; Immunohistochemistry; Intermediolateral cell column; Preganglionic (Appel, N.M.) **415**, 137

Sympathetic preganglionic axon

Neuropeptide; Neuropeptide depletion; Neurotensin; Leucine-enkephalin; Sympathetic cardioacceleration; Non-cholinergic ganglionic transmission (Bachoo, M.) **400**, 377

Sympathetic preganglionic neuron

Aortic nerve; Respiration; Phrenic nerve; Central respiratory drive; Rat (Numao, Y.) **401**, 190

Catecholamine; Slow synaptic potential; Spinal cord; Potassium conductance (Yoshimura, M.) **414**, 138

Calcium current; Noradrenaline; Pacemaker activity; Burst firing (Yoshimura, M.) **420**, 147

Sympathoexcitatory neuron

Noradrenergic neuron; Sympathoinhibitory neuron; Area postrema; Fluoro-Gold; Tyrosine hydroxylase immunohistochemistry (Blessing, W.W.) **419**, 336

Sympathoinhibitory neuron

Noradrenergic neuron; Sympathoexcitatory neuron; Area postrema; Fluoro-Gold; Tyrosine hydroxylase immunohistochemistry (Blessing, W.W.) **419**, 336

Synapse

Visual system; Bird; Monocular deprivation; Quantitative analysis (Nixdorf, B.) **405**, 326

Enkephalin; α -Motoneuron; Spinal

cord; Neuropeptide; Electron microscopy (Atsumi, S.) **409**, 187

Guanine nucleotide-binding protein; Immunohistochemistry; Retina; Neurotransmission; Rat (Terashima, T.) **410**, 97

Neural transplant; Catecholamine; Immunocytochemistry; Ultrastructure (Silverman, W.F.) **412**, 375

Nervous system-specific protein; S54 protein; Dendrite; Immunoelectron microscopy; Monoclonal antibody (Shirao, T.) **413**, 374

Retina; Kainic acid; Tectum; Ganglion cell; Degeneration; Excitotoxicity (Ehrlich, D.) **415**, 342

Glutamate receptor; GTP binding protein; Pertussis toxin; Islet activating protein (IAP); Joro spider toxin (JSTX) (Miwa, A.) **416**, 162

Tannic acid; Exocytosis; Microtubule; Microtubule associated protein (Berdan, R.C.) **417**, 153

Aging; Plasticity; Cerebral cortex; Human (Adams, I.) **424**, 343

Estradiol; Arcuate nucleus; Hypothalamus; Plasma membrane; Neuronal membrane; Freeze-fracture; Sex-difference (Olmos, G.) **425**, 57

Synapse elimination

Map formation; Cerebellum; Climbing fiber (Mulle, C.) **421**, 194

Map formation; Cerebellum; Climbing fiber; X-irradiation (Mariani, J.) **421**, 211

Synapse formation

Motor cortex; Sensory cortex; Association fiber; Axonal branching (Ichikawa, M.) **437**, 131

Synapse structure

Ciliary ganglion; Chick ciliary ganglion; Presynaptic nerve terminal; Calyx synapse; Lucifer yellow (Stanley, E.F.) **421**, 367

Synapsis

Thyrotropin-releasing hormone terminal; Growth hormone-releasing factor neuron; Rat hypothalamus (Shioda, S.) **402**, 355

Synaptic activity

Neurotransmitter release; Aluminum; Neurotoxicity (Banin, E.) **423**, 359

Synaptic connection

Fascia dentata; Transplantation; Electron microscopy; Axonal degeneration; Tissue marker (Sørensen, T.) **413**, 392

Synaptic contact

Calcitonin gene-related peptide fiber; Sympathetic neuron; Sensory fiber; Immunoelectron microscopy (Lee, Y.) **407**, 149

Synaptic density

Astrocyte; Electron microscopy;

Cerebellar explant; Cytosine arabinoside (Meshul, C.K.) **402**, 139

Delta-9-tetrahydrocannabinol (THC); Rat hippocampus; Neuron morphometry; Dendrite (Scallet, A.C.) **436**, 193

Synaptic depression

Renshaw cell; Stochastic stimulation; Non-linear analysis; Synaptic facilitation (Windhorst, U.) **408**, 289

Synaptic facilitation

Renshaw cell; Stochastic stimulation; Non-linear analysis; Synaptic depression (Windhorst, U.) **408**, 289

Synaptic glomerulus

Bird; Dorsal lateral geniculate nucleus; Relay neuron; Retinal terminal; Wulst terminal (Watanabe, M.) **401**, 279

Nucleus submedialis; Thalamus; Glia; Trigeminal nucleus (Ma, W.) **415**, 331

Synaptic heat

Spinal cord; Heat production (Tasaki, I.) **407**, 386

Synaptic input

Tyrosine hydroxylase; Glutamate decarboxylase; Rat; Neostriatum; Immunohistochemistry (Kubota, Y.) **406**, 147

Identified giant neuron; Axonal output; Dendritic and axonal arborizations; Buccal ganglion; *Helix pomatia* (Altrup, U.) **414**, 271

Synaptic interaction

Double staining; Mirror technique; Nigrostriatal; Tyrosine hydroxylase; Substance P (Kawai, Y.) **401**, 371

γ -Aminobutyric acid (GABA); Tissue culture; Corpus striatum; Tectum; Tegmentum; Striatonigral neuron; Immunocytochemistry (Shalaby, I.A.) **402**, 68

Synaptic membrane

Glycoprotein; Monoclonal antibody (Beesley, P.W.) **408**, 65

Ca²⁺ transport; Ethanol; Na⁺-Ca²⁺ antiporter; Chronic alcohol; Ion transport (Michaelis, M.L.) **414**, 239

Photoaffinity labeling, β -Adrenergic receptor; Cerebral cortex; Cerebellum; Glycoprotein; Radioligand binding (Lautens, L.L.) **426**, 401

Synaptic plasticity

Memory; Olfactory system; Long-term potentiation (Roman, F.) **418**, 221

Conditioning; Intracellular recording; Motor cortex; Colchicine; EGTA (Baranyi, A.) **423**, 378

Motoneuron; Testosterone; Penile reflex (Leedy, M.G.) **424**, 386

Dentate gyrus; Perforant path; H-7; Mellitin; Polymyxin B; Protein phosphorylation (Lovinger, D.M.) **436**, 177

Synaptogenesis; Lateral septum;

Estrogen; Adult rat (Miyakawa, M.) **436**, 184

Synaptic potential

Ethyl alcohol; Intracellular recording; Hippocampus; Transmembrane property; Electrophysiology (Siggins, G.R.) **414**, 22

Red nucleus; Corticofugal influence (Fanardjian, V.V.) **425**, 65

Synaptic potentiation

Motor cortex; Motor learning; Motor-sensory interaction (Sakamoto, T.) **413**, 360

Synaptic receptor

Amino acid; Aminobutyric acid; Glutamate; Mudpuppy; Retina; Retinal ganglion cell (Arkin, M.S.) **426**, 142

Synaptic remodelling

N-CAM; D2-protein; Red nucleus; D1-protein; D3-protein; S-100; Lesion (Jørgensen, O.S.) **405**, 39

Synaptic reorganization

Lesion; Medial amygdaloid nucleus; Accessory olfactory bulb; Electron microscopy; Rat (Ichikawa, M.) **420**, 243

Lesion; Medial amygdaloid nucleus; Bed nucleus of stria terminalis; Accessory olfactory bulb; Electron microscopy; Degenerating synapse; Rat (Ichikawa, M.) **420**, 253

Synaptic structure

Paleostriatal complex; Passive avoidance; Hemispheric difference; *Gallus domesticus* (Stewart, M.G.) **426**, 69

Synaptic transmission

Hippocampal slice; K⁺ undershoot; Ion transport (Roberts Jr., E.L.) **402**, 178

Adenosine; Modulation; Glutamate; Rat hippocampal slice (Proctor, W.R.) **426**, 187

Brain slice; PH measurement (Krishtal, O.A.) **436**, 352

Synaptic vesicle

Long-term potentiation; Hippocampus; Dendritic spine; Presynaptic; Stereology (Applegate, M.D.) **401**, 401

Monoclonal antibody; Immunohistochemistry; Immunoblot analysis; Specific protein (Obata, K.) **404**, 169

Synaptogenesis

Nerve regeneration; Tetrodotoxin; Axonal transport; Axonal growth; Tubulin; Actin; Goldfish (Antonian, E.) **400**, 403

Synaptic plasticity; Lateral septum; Estrogen; Adult rat (Miyakawa, M.) **436**, 184

Synaptoneurosome

γ -Aminobutyric acid receptor; Chloride ion channel; ³⁶Cl⁻ flux; Stress; Rat brain (Schwartz, R.D.) **411**, 151

Synaptosome

Putrescine; Spermine; Spermidine; Calcium uptake; Free intracellular calcium (Komulainen, H.) **401**, 50

Angiotensin II; Catecholamine; Release (Bottiglieri, D.F.) **403**, 167

Ovariectomy; Estradiol; Choline uptake; Acetylcholine synthesis (O'Malley, C.A.) **403**, 389

Prolactin; Hypothalamus; Subcellular distribution; Acetylcholinesterase (Emanuele, N.V.) **407**, 223

Lithium; Depolarization; K⁺-equilibrium distribution; Cortex slice (Adam-Vizi, V.) **410**, 257

G_{M1} gangliosidosis; Calcium flux (Koenig, M.L.) **424**, 169

γ -Aminobutyric acid (GABA) uptake; Human; Frontal cortex (Sidhu, H.S.) **435**, 334

β -Adrenergic receptor; Neostriatum; Somatosensory cortex; Anterior cingulate cortex; Postsynaptic density; Membrane recycling (Aoki, C.) **437**, 264

Synergism

Footshock; Hypovolemia; Osmotic stimulation; Rat; Vasopressin (Shibuki, K.) **410**, 140

Synergy

Human; Pattern; Load perturbation; Reflex (McIlroy, W.E.) **407**, 317

Synthesis

Dopamine; Electrical stimulation; In vivo voltammetry; Metabolism; Compartment; Dynamics; Autoreceptor (Michael, A.C.) **421**, 325

Synthetic ω -conotoxin

Concentration clamp; Internal perfusion; Ca²⁺ current (Oyama, Y.) **424**, 58

Systemic penicillin epilepsy

Evoked potential; Amygdala kindling; Ventral lateral thalamus; Motor cortex; Cat; Sleep-wake cycle (Shouse, M.N.) **425**, 198

T

T-maze

Pirenzepine; Scopolamine; Representational memory; M₁ muscarinic receptor; Tolerance (Messer Jr., W.S.) **407**, 37

T-maze learning

Colchicine; Hippocampal lesion;

Alzheimer's disease; Choline acetyltransferase activity; Glutamate receptor (Nakagawa, Y.) **408**, 57

Tachycardia

Prostaglandin E₂; Prostaglandin F_{2 α} ; Intracerebroventricular; Sympathetic nervous system; Pressor; Anaesthetised cat (Rao, T.S.) **435**, 7

Tachykinin

Substance P; Messenger RNA; Human brain; Striatum (Chesselet, M.-F.) **410**, 83

Avian sympathetic ganglion; Intracellular recording; Slow synaptic potential; M-current; Substance P; Autonomic pharmacology (Ramirez, O.A.) **414**, 228

Substance P; Neurokinin A; Substance K; Motor behavior; Structure-activity relationship (Hall, M.E.) **420**, 82

Substance P; Substance K; Hippocampus; Neuropeptide; Limbic system (Shults, C.W.) **426**, 290

Tactile

Superior colliculus; Somatosensory; Direction sensitivity; Cat (Clemons, H.R.) **405**, 313

Tactile sensation

Somatosensory cortex; Oral structure; Bilateral representation; Somatotopic representation; Cytoarchitectural organization (Taira, K.) **409**, 41

Tadpole

Compensatory eye movement; Central pattern generator; Frog; Larva (Stehouwer, D.J.) **410**, 264

Tail flick

Pentobarbital; Intrathecal; Morphine; Naltrexone; Transcutaneous electrical nerve stimulation (TENS); Electroacupuncture (Peets, J.M.) **416**, 301

Tail flick reflex

Spinal α_2 -adrenoceptor; Lateral hypothalamus; Stimulation-produced antinociception; Descending inhibition (Aimone, L.D.) **403**, 290

Rat; Variability; Response latency (Ness, T.J.) **426**, 169

Tail flick test

Noradrenaline; 6-Hydroxydopamine; Medullary A₁ lesion; Dorsal bundle lesion; Locus coeruleus lesion; Morphine analgesia; Hot plate test; Pressure test (Sawynok, J.) **419**, 156

Analgesia; Aversion; Periaqueductal gray; Diazepam; Electrical stimulation (Morgan, M.M.) **423**, 395

Dynorphin; Spinal cord; Neurotoxicity; Reflex; Morphine (Caudle, R.M.) **435**, 1

Tail pinch

3,4-Dihydroxyphenylacetic acid (DOPAC); Nucleus accumbens; Prefrontal cortex; Minor tranquilizer (D'Angio, M.) **409**, 169

Tannic acid

Exocytosis; Synapse; Microtubule; Microtubule associated protein (Berdan, R.C.) **417**, 153

Target specificity

Regeneration; Cell body reaction (Burmeister, D.W.) **423**, 56

Taste

Taste nerve; Cortex; Electrophysiology; Taste quality; Conditioned taste aversion (Yamamoto, T.) **400**, 312

Rat; Chorda tympani nerve; Single fiber; Ion specificity; Anodal current; Ionic taste stimulus (Ninomiya, Y.) **404**, 350

Catfish; Facial nerve; Electrophysiology; Amino acid; Feeding (Kanwal, J.S.) **406**, 105

Sensory coding; Toxicity; LD₅₀; Nucleus tractus solitarius; Electrophysiology; Multidimensional scaling (Scott, T.R.) **414**, 197

Amino acid; Transduction; Catfish (Brand, J.G.) **416**, 119

Von Ebner's gland; Autonomic nervous system; Tongue; Circumvallate papilla; Salivary gland (Gurkan, S.) **419**, 287

Taste bud

Chorda tympani; Lingual nerve; Denervation; Fungiform papilla; Hamster (Whitehead, M.C.) **405**, 192

Taste nerve

Taste; Cortex; Electrophysiology; Taste quality; Conditioned taste aversion (Yamamoto, T.) **400**, 312

Taste quality

Taste; Taste nerve; Cortex; Electrophysiology; Conditioned taste aversion (Yamamoto, T.) **400**, 312

Taste stimulus

Latency; Frog tongue; Fungiform papillae; Gustatory neural impulse; Receptor potential (Sato, T.) **424**, 333

Tau

Microtubule-associated protein; Denervation; Hippocampus; Immunocytochemistry; Electrophoresis (Busciglio, J.) **419**, 244

Tau protein

Hirano body; Alzheimer's disease; Cytoskeleton; Neurofibrillary tangle; Paired helical filament; Immunocytochemistry (Galloway, P.G.) **403**, 337

Taurine

Cerebellum; Electrosensory lateral line lobe; Amino acid; Glutamate; Aspartate; γ -Aminobutyric acid; Glycine (Nadi, S.) **425**, 218

Taxol

Tissue culture; Dorsal root ganglion; Neuron; Colchicine; Axonal transport; Adult mouse; Microtubule (Horie, H.) **420**, 144

[³H]TCP binding

MK-801; Phencyclidine (PCP)/ σ -receptor; Haloperidol-sensitive non-PCP/ σ -binding site; Anticonvulsant; (+)-[³H]SKF 10,047 competition; *N*-Methyl-D-aspartate (NMDA)-stimulated [³H]norepinephrine release (Sircar, R.) **435**, 235

Tectal commissure

Lateralization; Visual system; Commissurotomy; Pigeon (Güntürkün, O.) **408**, 1

Tectopontine

Superior colliculus; Pons; Cuneiform area; Retrograde double-labelling (Redgrave, P.) **413**, 170

Tectospinal cell

Superior colliculus; Collicular commissure; Predorsal bundle; Rat; Hamster (Sahibzada, N.) **415**, 242

Tectum

γ -Aminobutyric acid (GABA); Tissue culture; Corpus striatum; Tegmentum; Striatonigral neuron; Immunocytochemistry; Synaptic interaction (Shalaby, I.A.) **402**, 68

Retina; Kainic acid; Ganglion cell; Degeneration; Excitotoxicity; Synapse (Ehrlich, D.) **415**, 342

Tegmentum

γ -Aminobutyric acid (GABA); Tissue culture; Corpus striatum; Tectum; Striatonigral neuron; Immunocytochemistry; Synaptic interaction (Shalaby, I.A.) **402**, 68

Telencephalic structure

D₂ receptor; Acetylcholine release; Rat brain; Gekko brain (Stoof, J.C.) **404**, 273

Teleost

Optic tectum; Retinofugal projection; Visual system; Laminated structure; Retinotectal (von Bartheld, C.S.) **420**, 277

Terminal nerve; Luteinizing hormone releasing hormone immunocytochemistry; Horseradish peroxidase histochemistry (Grober, M.S.) **436**, 148

Temperature

[³H]Sulpiride; D₂ Dopamine receptor; Sodium ion; Magnesium ion; Guanine nucleotide; Ni protein; Ternary complex model (Imafuku, J.) **402**, 331

Lizard; Melatonin; Parietal eye; Pineal; Plasma (Firth, B.T.) **404**, 313

Cortex; Parietal cortex; Somatosensory cortex; Ablation; Discrimination; Lemniscal; Extralemniscal

(Porter, L.H.) **412**, 54

5-Hydroxytryptamine; Vagal afferent; Rat; Sucrose gap (Pike, G.K.) **413**, 388

Pyrethroid; Neurotoxin; Sodium channel gating; Neuroblastoma (Ruigt, G.S.F.) **437**, 309

Temperature information

Caudate-putamen; Anesthetized rat; Bursting activity; Scrotal skin temperature (Taylor, D.C.M.) **419**, 352

Temporal lobe

Epilepsy; Seizure; Emotion; Interictal behavior; Defence reaction; Kainic acid; Aggression (Griffith, N.) **400**, 360

Temporal memory

Memory; Hippocampus; Amygdala; Timing (Olton, D.S.) **404**, 180

Tendon reflex

Collateral sprouting; Regeneration; Motor neurons; Plasticity (Ungar-Sargon, J.) **407**, 124

Tensor tympani

Trigeminal motor nucleus; Primate; Middle ear aeration (Gannon, P.J.) **404**, 257

Terminal bouton

Neuroendocrine; Corticotropin-releasing factor (CRF); Intracellular (Rho, J.-H.) **436**, 143

Terminal degeneration

Kainic acid; Tree shrew; Lateral geniculate nucleus; Neurotoxin; Wheat germ agglutinin-horseradish peroxidase (Horn, K.M.) **416**, 187

1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP); Nigrostriatal; Dopamine; Mosaic; Fink-Heimer; Dog; Striatum (Wilson, J.S.) **423**, 329

Terminal differentiation

Central nervous system neuron; Neuronal marker; Cell culture; Immunocytochemistry; Monoclonal antibody (Wu, D.K.) **421**, 186

Terminal nerve

Lesion; Mating behavior; Testosterone; Luteinizing hormone-releasing hormone; Male hamster (Wirsig, C.R.) **417**, 293

Teleost; Luteinizing hormone releasing hormone immunocytochemistry; Horseradish peroxidase histochemistry (Grober, M.S.) **436**, 148

Terminal sprouting

Transplantation; Gonadotropin-releasing hormone; Olfactory bulb; Hypogonadism; Trophic factor; Graft (Perlow, M.J.) **415**, 158

Ternary complex model

[³H]Sulpiride; D₂ Dopamine receptor; Sodium ion; Magnesium ion; Temperature; Guanine nucleotide; Ni protein (Imafuku, J.) **402**, 331

Testosterone

Nerve regeneration; Chamber model; Laminin; Ganglioside; Catalase (Müller, H.) **413**, 320

Medial preoptic area; Ventral noradrenergic tract; Luteinizing hormone; Naloxone; Androgenization; Sexual differentiation; Rat (Grossmann, R.) **415**, 205

Hypothalamus; Medial preoptic nucleus; Sexual dimorphism; Sexual differentiation; Quail (Panzica, G.C.) **416**, 59

Terminal nerve; Lesion; Mating behavior; Luteinizing hormone-releasing hormone; Male hamster (Wirsig, C.R.) **417**, 293

Aromatase; 5 α -Reductase; 5 β -Reductase; Hypothalamus; Limbic system; Quail (Schumacher, M.) **422**, 137

Medial preoptic area; Medial basal hypothalamus; β -Endorphin; Neuropeptide Y; Neurotensin; Sexual differentiation; Opioid receptor; Rat (Diez-Guerra, F.J.) **424**, 225

Motoneuron; Penile reflex; Synaptic plasticity (Leedy, M.G.) **424**, 386

Orchidectomy; Catecholamine; Serotonin; Hypothalamus; Cerebral cortex; Spinal cord (Battaner, E.) **425**, 391

Testosterone metabolism

Androgen; Developing spinal cord; Organotypic culture; Aromatase; 5 α -Reductase; Neurotrophic factor (Hauser, K.F.) **406**, 62

Tetanization frequency

Long-term depression; Long-term potentiation; Perforant path; Dentate area; Spreading depression (Bramham, C.R.) **405**, 100

Tetanus toxin

Transneuronal transport; Motorneuron (Fishman, P.S.) **406**, 275

12-O-Tetradecanoylphorbol**13-acetate (TPA)**

Astrocyte; Leukotriene production; Calcium ionophore A23187; Immunoinflammatory response; Brain edema (Hartung, H.-P.) **435**, 367

Tetraethylammonium (TEA)

Spinal cord neuron; Cell culture; Phencyclidine (PCP); 4-Aminopyridine (4-AP); Potassium channel; Voltage clamp; Action potential (Aguayo, L.G.) **436**, 9

Tetraethylammonium ion

Neurohypophysis; Oxytocin release; Potassium channel; Naloxone; Opioid; 4-Aminopyridine (Racké, K.) **436**, 371

4,5,6,7-Tetrahydroisoxazolo-**[5,4-c]pyridin 3-ol (THIP)**

Opiate; Morphine; γ -Aminobutyric acid; Picrotoxin; Microinjection;

Periaqueductal gray; Rat; Analgesia; Pain-inhibition (Depaulis, A.) **436**, 223

Tetramethylammonium profile

Extracellular diffusion; Slice; Unstirred bathing; Tortuosity; Volume fraction (Lipinski, H.-G.) **437**, 26

Tetramethylbenzidine

Nucleus of the optic tract; Inferior olive; γ -Aminobutyric acid; Horseradish peroxidase; Monkey; Cat; Rat (Horn, A.K.E.) **409**, 133

Tetrodotoxin

Nerve regeneration; Axonal transport; Synaptogenesis; Axonal growth; Tubulin; Actin; Goldfish (Antonian, E.) **400**, 403

Glutamate release; Veratridine- and potassium-induced release; Calcium dependence of release; Anoxia; Hypoxia; Rat; Development of release (Minc-Golomb, D.) **402**, 255

Muscle denervation; Bungarotoxin; Cyclic AMP-dependent protein kinase II; Acetylcholine receptor (Held, I.R.) **407**, 341

Neurite outgrowth; Fetal neuron; Cerebral cortex (Van Huizen, F.) **408**, 271

Cytochrome; Redox state; Potassium chloride excess; Electrical stimulation; Neurohypophysis (Harada, E.) **414**, 173

Na⁺ channel; Endogenous peptide (Lombet, A.) **417**, 327

Vasospasm; Microvessel; Neurogenic control; Hippocampal slice (Cach, R.L.) **421**, 370

Grayanotoxin; Central depression; Muscle relaxation; Locomotor activity (Ohgaki, T.) **425**, 364

Rainbow trout brain synaptosome; Voltage-dependent sodium channel; Aconitine; Batrachotoxin; Veratridine; *Leiurus quinquestratus* venom; DDT (Stuart, A.M.) **437**, 77

Tetrodotoxin (TTX)

Lateral inhibition; Glycine (Barnes, S.) **406**, 233

Thalamic reticular neuron

Vibrissa; Receptive field; Ventrobasal neuron; Rat (Sumitomo, I.) **415**, 389

Thalamocortical connection

Nerve graft; Axonal elongation; Somatosensory pathway; Tracing technique; Horseradish peroxidase (Cossu, M.) **415**, 399

Thalamocortical projection

Cerebral cortex; Cholinesterase; Cingulate gyrus; Limbic system; Non-specific nucleus (Robertson, R.T.) **404**, 282

Prefrontal cortex; Mediodorsal nucleus; Ventromedial nucleus; Cat (Martínez-Moreno, E.) **407**, 17

Thalamus

Neurotensin; Immunocytochemistry; Human infant; Subthalamus; Hypothalamus (Sakamoto, N.) **403**, 31

Choline acetyltransferase; Immunohistochemistry; Horseradish peroxidase; Basal forebrain (Steriade, M.) **408**, 372

Analgesia; Pain; Pain modulation; Visceral pain (Girardot, M.-N.) **409**, 19

General cortex; Intrinsic neuron; Local circuit neuron; Relay cell; Reptile (Pritz, M.B.) **409**, 146

Central nervous system (CNS) reorganization; Neural plasticity; Sprouting; Age-at-lesion effect; Motor cortex; Hemispherectomy (Villablanca, J.R.) **410**, 219

Somatosensory; Hyperstriatum; Neostriatum; Wheatgerm agglutinin-horseradish peroxidase; Avian (Wild, J.M.) **412**, 205

Sympathetic nerve; Superior cervical ganglion; Bilateral innervation; Spontaneously hypertensive rat; Hypertension; Autoregulation (Sadoshima, S.) **413**, 297

Nucleus submedius; Synaptic glomerulus; Glia; Trigeminal nucleus (Ma, W.) **415**, 331

Catalepsy; Baclofen; δ -Aminovalerate; Muscimol; Bicuculline (Wüllner, U.) **422**, 129

Morphine; Oxymorphone; Nalbuphine; Cerebral glucose utilization; Opioid receptor; Analgesia; Nucleus of the spinal tract of the trigeminal nerve (Fanelli, R.J.) **422**, 257

2-Deoxyglucose; Autoradiography; Hippocampus; Cerebral cortex; Piracetam; Scopalamine; Rat (Piercey, M.F.) **424**, 1

Sensory deprivation; Cytochrome oxidase; Glutamic acid decarboxylase (GAD); Reticular nucleus (Land, P.W.) **425**, 178

Cholecystokinin; Ventroposterolateral nucleus; Immunocytochemistry; Dorsal column nucleus (Hunt, C.A.) **426**, 257

Neuropeptide; Monkey; Afferent innervation (Molinari, M.) **426**, 270

Cardiac pain; Nociception; Nucleus ventralis posterolateralis; Viscerosomatic convergence; Cat (Taguchi, H.) **436**, 240

Nucleus ventralis posterolateralis (VPL); Nucleus ventralis lateralis (VL) Sensory cortex; Motor deficit (Bornschlegl, M.) **437**, 121

Theophylline

Adenosine; Hippocampus; Phenylisopropyladenosine; Electrophysiology (Brodie, M.S.) **415**, 323

Hippocampus; Caffeine; Kainic acid; Metrazol; Adenosine receptor; Epilepsy (Ault, B.) **426**, 93

Thermal antinociception

δ -Opioid receptor; Brain; Spinal cord (Heyman, J.S.) **420**, 100

Thermal inhibition

Pain; Cat; Nociceptor-driven (Kanui, T.I.) **402**, 160

Thermal loading

Superoxide dismutase; Body temperature range; Heat stress (Fishman, R.H.B.) **410**, 343

Thermal stimulation

Lateral cervical nucleus; Sensitization; Spinocervicohthalamic pathway; Nociception (Kajander, K.C.) **436**, 390

Thermocoagulative lesion

Substantia nigra; γ -Vinyl γ -aminobutyric acid (GVG); *N*-Methyl-D,L-aspartate (NMDA); Kindling development; Epileptogenesis (Shin, C.) **412**, 311

Thermoregulation

Brainstem; Dorsal raphe (Keenan, C.L.) **410**, 189

Fever; Arginine vasopressin; Vasopressin; Indomethacin; Set point (Wilkinson, M.F.) **415**, 275

Pre-pontine knife cut; Hyperthermia; Brown adipose tissue; Cardiac output distribution; Non-shivering thermogenesis (Shibata, M.) **436**, 273

Cyclo(His-Pro); Hypothermia; Dopamine (Prasad, C.) **437**, 345

Thermosensitivity

Hypothalamic-preoptic neuron; Waking-sleeping cycle (Parmeggiani, P.L.) **415**, 79

Paraventricular nucleus; Slice preparation; Phasic firing neuron; Vasopressin neuron; Body water balance (Inenaga, K.) **424**, 126

Theta

Hippocampal brain slice; Carbachol; Muscarinic; Electro encephalogram (EEG) (Konopacki, J.) **405**, 196

Theta (θ)

Hippocampus; Brain; Transected slice; Carbachol; Two-generator hypothesis (Konopacki, J.) **436**, 217

Theta genesis

Intracellular theta; Hippocampal pyramid; Slow spike; Spike burst; Lucifer yellow (Núñez, A.) **416**, 289

Theta rhythm

Posterior cingulate cortex; Electroencephalographic spike; Multi-unit activity; Transcallosal evoked potential; Fast oscillation; Slow-wave sleep; Rapid-eye-movement sleep (Leung, L.-W.S.) **407**, 68

Cholinergic input; Posterior cingulate cortex; Basal forebrain neuron; Septal

nucleus; EEG-spike; Pharmacology (Borst, J.G.G.) **407**, 81

Medial septum; Hippocampus; Rhythmic unit; Neuron pair; Cross-correlation (Alonso, A.) **413**, 135

Mast cell-degranulating peptide (MCD); Behavior; Electroencephalography; Binding; Central nervous system; Hippocampus; Seizure (Bidard, J.-N.) **418**, 235

Hippocampus; Rhythmic slow-wave activity; Diazepam; Acetylcholine; Locomotion (Caudarella, M.) **435**, 202

Hippocampus; Long-term potentiation; Chronic recording (Staubli, U.) **435**, 227

Theta-off

Hippocampal; Electroencephalography (EEG); State; Theta-on; Cell (Colom, L.V.) **422**, 277

Theta-on

Hippocampal; Electroencephalography (EEG); State; Theta-off; Cell (Colom, L.V.) **422**, 277

Thiamin

Thiamin deficiency; Ouabain; (Na^+ , K^+)-ATPase; Cerebellum; Hypothalamus (Matsuda, T.) **437**, 375

Thiamin deficiency

Thiamin; Ouabain; (Na^+ , K^+)-ATPase; Cerebellum; Hypothalamus (Matsuda, T.) **437**, 375

Thiamine

Thiamine phosphoester; Nervous system; Chronic ethanol; Compartmental model; Metabolism in vivo (Rindi, G.) **413**, 23

Thiamine deficiency

Monoamine; Cortical distribution; Korsakoff's disease model (Langlais, P.J.) **421**, 140

Thiamine phosphoester

Thiamine; Nervous system; Chronic ethanol; Compartmental model; Metabolism in vivo (Rindi, G.) **413**, 23

Thiopental

Anoxic damage; Anesthetic; Isoflurane; Hippocampus; Brain slice; Anoxia (Bendo, A.A.) **403**, 136

Thioridazine

Antipsychotic drug; Dopamine release; Striatum; Nucleus accumbens; Dopamine cell firing (Lane, R.F.) **408**, 317

Third cerebral ventricle

Corticotropin releasing factor; Naloxone; Sexual behaviour; Male rat (Sirinathsinghji, D.J.S.) **407**, 185

N-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP); Pargyline, MPTP analogue; Sexual behavior; Male rat (Sirinathsinghji, D.J.S.) **407**, 364

Thirst

Vasopressin; Renin; Blood pressure;

Catecholamine; Urinary water excretion (Davis, B.J.) **405**, 1

Zona incerta; Subfornical organ; Medial preoptic area; Angiotensin II; Osmoreceptor; Extracellular single-unit recording (Mok, D.) **407**, 332

Thromboxane

Melatonin; 5-Methoxytryptamine; Methoxyindole; Arachidonic acid metabolism; Prostaglandin; Medial basal hypothalamus; Pineal gland (Franchi, A.M.) **405**, 384

Thromboxane B₂

Cerebral arterial spasm; Hippocampal slice; Blood serum (Cach, R.) **414**, 1

Thy-1

Anti-idiotypic antibody; Glycoprotein (French, P.W.) **420**, 324

[³H]Thymidine

Striatum; Compartment; Opiate receptor; Development (Van der Kooy, D.) **401**, 155

Thymus

Afferent nerve fiber; Nodose ganglion; Horseradish peroxidase (Magni, F.) **424**, 379

Thyroid deficiency

Choline acetyltransferase; Regional development; Subcortical cholinergic cell; Rehabilitation (Patel, A.J.) **422**, 182

Thyroid hormone

Thyroxine; Triiodothyronine; Deiodinase; Hypothalamus; Median eminence (Riskind, P.N.) **420**, 194

Neurofilament; Monoclonal antibody; Axon sprouting (Gravel, C.) **422**, 327

Thyroid stimulating hormone

Chronic stress; Corticosterone; Growth hormone; Morphine; Endogenous opioid (Armario, A.) **401**, 200

Thyrotropin secretion

Clonidine; Isoproterenol; Apomorphine; Yohimbine; Propranolol; Phenolamine; Sulpiride (Jaffer, A.) **404**, 267

Thyrotropin-releasing hormone

Brain; Gastric acid (Hernandez, D.E.) **401**, 381

Serotonin; Substance P; Coexistence; Immunohistochemistry; Intermediolateral cell column; Preganglionic; Sympathetic outflow (Appel, N.M.) **415**, 137

Immunohistochemistry; Intracellular staining; Horseradish peroxidase; Spinal cord; Motoneuron (Ulfhake, B.) **419**, 387

Alcohol-narcosis; Neurotensin; ICI 174864 enkephalin (Widdowson, P.S.) **424**, 281

Epinephrine-stimulated hyperglycemia; Thyrotropin-releasing hormone analog; Autonomic nervous system; Insulin;

Mouse (Amir, S.) **435**, 112

Thyrotropin-releasing hormone (TRH)

Wet-dog shakes; Antidepressant; Desipramine; Nialamide (Sills, M.A.) **401**, 195

Thyrotropin-releasing hormone analog

Thyrotropin-releasing hormone; Epinephrine-stimulated hyperglycemia; Autonomic nervous system; Insulin; Mouse (Amir, S.) **435**, 112

Thyrotropin-releasing hormone terminal

Synapsis; Growth hormone-releasing factor neuron; Rat hypothalamus (Shioda, S.) **402**, 355

Thyroxine

Triiodothyronine; Thyroid hormone; Deiodinase; Hypothalamus; Median eminence (Riskind, P.N.) **420**, 194

Tibialis anterior muscle

Horseradish peroxidase; Motoneuron; Fast twitch muscle fiber; Slow twitch muscle fiber; Soleus muscle; Ageing; Rat (Ishihara, A.) **435**, 355

Tight junction

Dolphin brain; Blood-brain barrier; Glia; Gap junction; Brain capillary; Angioarchitectonics; Gliarchitectonics; Glio-glial junction; Astroglia-like cell (Glezer, I.I.) **414**, 205

Time coding

Auditory cortex; Amplitude modulation; Periodicity analysis; Bird (Hose, B.) **422**, 367

Time constant

Spinal cord; Motoneuron; Membrane resistance; Electrotonic length; Cable model; Dendrite (Glenn, L.L.) **435**, 398

Timing

Memory; Hippocampus; Amygdala; Temporal memory (Olton, D.S.) **404**, 180

Timing of the ABR component

Single unit activity; Superior olivary complex; Auditory brainstem response (ABR); Timing of unit discharge; Latency/intensity function (Kano, Y.) **419**, 262

Timing of unit discharge

Single unit activity; Superior olivary complex; Auditory brainstem response (ABR); Timing of the ABR component; Latency/intensity function (Kano, Y.) **419**, 262

Timm's stain

Hippocampus; Asymmetry; Apodemus; Subiculum (Slomianka, L.) **436**, 69

Tissue culture

γ -Aminobutyric acid (GABA); Corpus striatum; Tectum; Tegmentum; Striatonigral neuron;

Immunocytochemistry; Synaptic interaction (Shalaby, I.A.) **402**, 68

Sympathetic ganglion; Transmitter; Steroid antagonist (Hendry, I.A.) **402**, 264

Urinary bladder; Intramural ganglion; Electrophysiology; Autonomic nerve (Pittam, B.S.) **403**, 267

Astroglial cell; Neonatal brain; Dipeptidyl peptidase; Mercurial; Dipeptide (Stevens, B.R.) **406**, 113

Dehydroepiandrosterone; Dehydroepiandrosterone sulfate; Memory (Roberts, E.) **406**, 357

Cell membrane expansion; Dorsal root ganglion; Neuron; Inhibition of action potential; 2-Decenoic acid; Fatty acid; Adult mouse (Horie, H.) **411**, 298

Dorsal root ganglion; Neuron; Taxol; Colchicine; Axonal transport; Adult mouse; Microtubule (Horie, H.) **420**, 144

Guillain-Barré syndrome; Polyradiculoneuritis; Peripheral nerve disease; Schwann cell; Myelin sheath (Birchem, R.) **421**, 173

Colocalization; Neuropeptide Y; 5-Hydroxytryptamine; Intracardiac neuron; Dopamine β -hydroxylase; Heart (Hassall, C.J.S.) **422**, 74

Tissue hypoxia

Hippocampal slice; Vasoconstriction; Neural excitability (Topple, A.) **406**, 308

Tissue marker

Fascia dentata; Transplantation; Electron microscopy; Axonal degeneration; Synaptic connection (Sørensen, T.) **413**, 392

Toad

Cranial motoneuron; Localization; Horseradish peroxidase; Amphibian muscle; Prey-catching behavior (Takei, K.) **410**, 395

Enkephalin; Evolution; Frog; Hypothalamus; Immunocytochemistry; Optic tectum; Peptide (Merchentaler, I.) **416**, 219

Tolerance

Chronic diazepam; γ -Aminobutyric acid (GABA)-ergic subsensitivity; Bicuculline; Seizure threshold (Gonsalves, S.F.) **405**, 94

Pirenzepine; Scopolamine; Representational memory; M₁ muscarinic receptor; T-maze (Messer Jr., W.S.) **407**, 37

Pirenzepine; Scopolamine; Muscarinic receptor; Quinuclidinyl benzilate; Autoradiography (Messer Jr., W.S.) **407**, 46

Morphine; Analgesia; Dependence; Cholecystokinin; Proglumide; Benzotript (Panerai, A.E.) **410**, 52

Periaqueductal gray; Stimulation-produced analgesia; Analgesia; Pentobarbital; Rat (Morgan, M.M.) **425**, 356

Rat corticosterone; β -Endorphin; Dynorphin; Independent opioid receptor (Iyengar, S.) **435**, 220

Periaqueductal gray; Opioid; Opioid receptor; Pain; Nociception; Conditioning (Millan, M.J.) **435**, 97

Tongue

Von Ebner's gland; Autonomic nervous system; Circumvallate papilla; Salivary gland; Taste (Gurkan, S.) **419**, 287

Tonic

Pain; Serotonin; Morphine; Microinjection; Analgesia (Inase, M.) **426**, 205

Tooth pulp

Jaw-opening reflex; Periaqueductal gray region; Raphe nucleus (Chung, R.Y.) **403**, 172

Spinal trigeminal nucleus; Subnucleus oralis; Subnucleus caudalis; Enkephalin; Naloxone; Inhibition (Ujihara, H.) **418**, 52

Nociception; Trigeminal subnucleus interpolaris; Cat; Conditioning stimulation; Naloxone (Pertovaara, A.) **422**, 205

Topographic organization

Corticoatrial projection; Autoradiography; Evoked potential; Cat; Motor cortex (Updyke, B.V.) **402**, 365

Topography

Olfaction; Horseradish peroxidase; Nasal cavity; Bulbar glomerulus (Astic, L.) **424**, 144

Tortuosity

Extracellular diffusion; Slice; Tetramethylammonium profile; Unstirred bathing; Volume fraction (Lipinski, H.-G.) **437**, 26

Toxic neuropathy

Axonal transport; Carbon disulfide; Neurofilament; Giant axonal neuropathy (Pappolla, M.) **424**, 272

Toxicity

Taste; Sensory coding; LD₅₀; Nucleus tractus solitarius; Electrophysiology; Multidimensional scaling (Scott, T.R.) **414**, 197

Trachea

Parasympathetic ganglion; Smooth muscle; Airway resistance (Mitchell, R.A.) **437**, 157

Tracheosyringeal motor nucleus (nXIIts)

Avian; Respiration; Vocalization; Nucleus tractus solitarius; Parabrachial nucleus (Wild, J.M.) **407**, 191

Tracing technique

Nerve graft; Axonal elongation;

Thalamocortical connection;
Somatosensory pathway; Horseradish
peroxidase (Cossu, M.) **415**, 399

Tract tracing

Human brain; Anterograde
degeneration; Cholesterol ester crystal;
Degenerated myelin; Polarizing
microscopy; Macrophage (Miklossy, J.)
426, 377

Training

Spinal cat; Locomotion; Kinematics;
Electromyogram (EMG) (Barbeau, H.)
412, 84

Transcallosal collateral

Cortical neuron collateral; Axonal
projection; Wheat germ
agglutinin-horseradish peroxidase;
Corticostriatal projection (Ferino, F.)
417, 257

Transcallosal evoked potential

Posterior cingulate cortex;
Electroencephalographic spike;
Multi-unit activity; Theta rhythm; Fast
oscillation; Slow-wave sleep;
Rapid-eye-movement sleep
(Leung, L.-W.S.) **407**, 68

Transcription rate

Scrapie-related protein mRNA;
Development (Lieberburg, I.) **417**, 363

Transcutaneous electrical nerve stimulation (TENS)

Tail flick; Pentobarbital; Intrathecal;
Morphine; Naltrexone;
Electroacupuncture (Peets, J.M.)
416, 301

Transduction

Taste; Amino acid; Catfish
(Brand, J.G.) **416**, 119

Transected slice

Hippocampus; Brain; Carbachol; Theta
(θ); Two-generator hypothesis
(Konopacki, J.) **436**, 217

Transection

Spinal cord; Pudendal nerve; Evoked
response; Supraspinal control;
Lordosis; Cutaneous reflex
(Cohen, M.S.) **401**, 103

Barrier; Horseradish peroxidase; Spinal
cord (Noble, L.J.) **424**, 177

Neurite; Axotomy; Injury; Trauma;
Calcium; Retraction; Death
(Lucas, J.H.) **425**, 384

Transforming growth factor- α

Fluoro-Gold; Opioid peptide;
Met-enkephalin-Arg-Gly-Leu
(MERGL) peptide; Leu-enkephalin
peptide; Co-localization;
Interpeduncular nucleus; Raphe
nucleus (Code, R.A.) **421**, 401

Transganglionic

Axonal regeneration; Spinal root;
Sensory neuron; Enhancement
(Richardson, P.M.) **411**, 406

Transient outward current

Convulsant; 4-Aminopyridine;

Pentylentetrazole; Nodose ganglion
(Oyama, Y.) **409**, 243

Nodose ganglion; Membrane current;
Internal perfusion (Oyama, Y.) **410**, 61

Transmembrane property

Ethyl alcohol; Intracellular recording;
Hippocampus; Synaptic potential;
Electrophysiology (Siggins, G.R.)
414, 22

Transmission

Central nervous system (CNS);
Electrophysiology; Cortex; Olfaction;
Field potential; Modelling
(Bressler, S.L.) **409**, 294

Transmission efficiency

Acetylcholine receptor; Receptor
turnover; α -Bungarotoxin (Rochel, S.)
435, 41

Transmission electron microscopy

Global brain ischemia; Endothelial
microvilli; Postschismic hypoperfusion;
Microvasculature (Kumar, K.) **421**, 309

Transmitter

Sympathetic ganglion; Tissue culture;
Steroid antagonist (Hendry, I.A.)
402, 264

Transmitter release

Protein kinase C; Phorbol ester;
Hippocampus; Glutamate; Calcium
(Malenka, R.C.) **403**, 198

Adenosine antagonist; Adenosine
agonist; Hippocampus; Cerebellum;
Glutamate; Excitatory postsynaptic
potential (EPSP) (Prestwich, S.A.)
405, 130

Miniature endplate potential (MEPP)
frequency; MEPP amplitude; Spatial
decay method; Frog neuromuscular
junction; Non-uniformity
(Robitaille, R.) **408**, 353

Botulinum type A toxin; Ouabain;
Neuromuscular junction; Presynaptic
mechanism; $\text{Na}^+ - \text{Ca}^{2+}$ exchange
(Molgo, J.) **410**, 385

Calcium; Calmodulin; Chlorpromazine;
Neuromuscular junction (Sahaf, Z.Y.)
437, 397

Transneuronal transport

Tetanus toxin; Motoneuron
(Fishman, P.S.) **406**, 275

Transplant

Dopamine; 6-Hydroxydopamine; Limb
use; Paw use; Rotation (Dunnett, S.B.)
415, 63

Neural graft; Obesity; Ventromedial
hypothalamus; Lesion; Hyperphagia;
Feeding; Consummatory behavior
(Mickley, G.A.) **424**, 239

Transplantation

Hippocampus; Electroencephalogram;
Unit activity; Behavior; θ -Activity
(Buzsáki, G.) **400**, 321

Fascia dentata; Electron microscopy;
Axonal degeneration; Synaptic

connection; Tissue marker (Sørensen, T.)
413, 392

Embryonic graft; Neostriatum;
Dendritic morphology; Spiny neuron;
Morphometry; Rat (Zemanick, M.C.)
414, 149

Gonadotropin-releasing hormone;
Olfactory bulb; Hypogonadism;
Trophic factor; Terminal sprouting;
Graft (Perlow, M.J.) **415**, 158

Autoradiography; Differentiation;
Choline acetyltransferase; Cognition;
Neuroblastoma (Kordower, J.H.)
417, 85

Visual cortex; Lateral geniculate
nucleus; Slice preparation; Current
source-density analysis; Intracellular
analysis (Hamasaki, T.) **422**, 172

Embryonic graft; Neostriatum;
Connectivity; Horseradish peroxidase;
Rat (Walker, P.D.) **425**, 34

Transport

Benzodiazepine; Blood-Brain;
Receptor; Blood flow;
Autoradiography; Integral method
(Drewes, L.R.) **401**, 55

Transsynaptic transport

Olfactory system; Wheat germ
agglutinin (Itaya, S.K.) **409**, 205

Trauma

Dynorphin; Leucine-enkephalin;
 β -Endorphin; Brain injury;
Radioimmunoassay (McIntosh, T.K.)
425, 225

Neurite; Transection; Axotomy; Injury;
Calcium; Retraction; Death
(Lucas, J.H.) **425**, 384

Tree shrew

Kainic acid; Terminal degeneration;
Lateral geniculate nucleus;
Neurotoxin; Wheat germ
agglutinin-horseradish peroxidase
(Horn, K.M.) **416**, 187

Triacylglycerol

Seizure; Phosphatidylinositol; Free
fatty acid; Diacylglycerol; Rat
(Yoshida, S.) **412**, 114

Tricyclic antidepressant

Imipramine binding; Serotonin uptake;
Estradiol; Gonadal hormone; Platelet
(Rehavi, M.) **410**, 135

Triethyl tin

Blood-brain barrier; Mannitol;
Reversibility (Inoue, T.) **414**, 309

Trifluoromethylphenylpiperazine (TFMPP)

Electroencephalographic sleep;
Rapid-eye-movement (REM) sleep;
Non-rapid-eye-movement sleep;
Serotonin; Fluoxetine; Rat
(Pastel, R.H.) **436**, 92

Trigeminal

Infrared sensitive; Snake; Oral cavity
(Dickman, J.D.) **400**, 365

Trigeminal ganglion

Substance P; Forebrain cerebral vessel; Pia arachnoid; Capsaicin; Superior cervical ganglion; 6-Hydroxydopamine (Saito, K.) **403**, 66

Substance P; Calcitonin gene-related peptide; Cholecystokinin; Eye; Sensory innervation; Guinea pig; Cholera toxin B subunit; Retrograde axonal transport; Immunohistochemistry (Kuwayama, Y.) **405**, 220

Purified insulin receptor; Bovine peripheral nervous system; Phosphorylation; Paleocortex; Liver; Superior cervical ganglion; Structure; Function (Waldbillig, R.J.) **409**, 215

Trigeminal motor nucleus

Tensor tympani; Primate; Middle ear aeration (Gannon, P.J.) **404**, 257

Horseradish peroxidase; Differences between motoneurons (Yoshida, A.) **416**, 393

Trigeminal nerve

Horseradish peroxidase; Otic ganglion; Salivary gland; Parasympathetic system; Guinea pig (Segade, L.A.G.) **411**, 386

Shiverer mouse; Na⁺, K⁺-ATPase; Myelin-associated glycoprotein; Immunocytochemistry; Central nervous system; Myelin (Sheedlo, H.J.) **415**, 105

Trigeminal nucleus

Nucleus submedius; Thalamus; Synaptic glomerulus; Glia (Ma, W.) **415**, 331

Trigeminal sensory nucleus

Internuclear connection; Horseradish peroxidase (Nasution, I.D.) **425**, 234

Trigeminal subnucleus interpolaris

Tooth pulp; Nociception; Cat; Conditioning stimulation; Naloxone (Pertovaara, A.) **422**, 205

Trigeminal system

Whisker; Oxidative enzyme; Denervation; Visual system (Yip, V.S.) **406**, 157

Trigeminothalamic tract

Spinothalamic tract; Opioid peptide; Dorsal horn; Nociception (Coffield, J.A.) **425**, 380

Triiodothyronine

Thyroxine; Thyroid hormone; Deiodinase; Hypothalamus; Median eminence (Riskind, P.N.) **420**, 194

Triplet

Brain; Coding; Spike; Statistical analysis; Redundancy (Lestienne, R.) **437**, 214

Trisynaptic circuit

Neuronal transmission; Hippocampus; θ Rhythm; Evoked potential (Herreras, O.) **413**, 75

Tritocerebrum

Crayfish; Interneuron; Stimulus coding;

Morphology; Classification (Tautz, J.) **407**, 230

Trophic factor

Transplantation; Gonadotropin-releasing hormone; Olfactory bulb; Hypogonadism; Terminal sprouting; Graft (Perlow, M.J.) **415**, 158

Retina; Kainic acid; Ganglion cell; Optic tectum; Development; Horseradish peroxidase (Tung, N.N.) **435**, 153

Trout saccule

Neurotransmitter candidate release; Hair cell; Amino acid; HPLC (Drescher, M.J.) **417**, 39

True blue

Lamina X; Serotonin; Enkephalin; Substance P; Hemisection; Dorsal rhizotomy (Nahin, R.L.) **401**, 292

Tryptamine

Receptor binding; Down-regulation; Monoamine oxidase inhibitor; Clorgyline; Frontal/parietal cortex; Chronic treatment (Martin, L.L.) **419**, 239

Tryptophan

Dopamine synthesis; Fluoxetine; 5-Hydroxytryptamine synthesis; Neurointermediate lobe; Pituitary gland; Platelets (Shannon, N.J.) **402**, 287

Serotonin metabolism; In vivo voltammetry; High-pressure liquid chromatography (HPLC) (De Simoni, M.G.) **411**, 89

Tryptophan hydroxylase

Aldehyde dehydrogenase inhibitor; Diethylthiocarbamate; Disulfiram; Indole-3-acetaldehyde; 5-Hydroxyindole-3-acetaldehyde (Nilsson, G.E.) **409**, 374

Monoclonal antibody; Phenylalanine hydroxylase; Tyrosine hydroxylase; Immunocytochemistry; Brain (Haan, E.A.) **426**, 19

Tuber cinereum

Choline acetyltransferase; Hypothalamus; Immunohistochemistry; Primate; Rat (Tago, H.) **415**, 49

Tuberohypophysial dopaminergic neuron

Dopamine; Tuberoinfundibular dopaminergic neuron; Prolactin (Gunnert, J.W.) **424**, 371

Tuberoinfundibular dopamine neuron

Median eminence; Arcuate nucleus stimulation; γ -Butyrolactone; 3,4-Dihydrophenylacetic acid; Prolactin (Lookingland, K.J.) **436**, 161

Tuberoinfundibular dopaminergic neuron

Dopamine; Tuberohypophysial dopaminergic neuron; Prolactin

(Gunnert, J.W.) **424**, 371

Tuberoinfundibular neuron

Paraventricular nucleus; Baroreceptor; A₁-catecholaminergic area; Glutamate microinjection (Kannan, H.) **409**, 358

Dopamine; Prolactin; Pituitary tumor; Aging; Estrogen (Phelps, C.J.) **411**, 108

Dopamine; Dihydroxyphenylacetic acid (DOPAC); Median eminence; Sex difference; Prolactin; Stress (Lookingland, K.J.) **419**, 303

Tubulin

Nerve regeneration; Tetrodotoxin; Axonal transport; Synaptogenesis; Axonal growth; Actin; Goldfish (Antonian, E.) **400**, 403

Alcohol; Acetaldehyde; Brain; Microtubule; Polymerization; Adduct (McKinnon, G.) **416**, 90

Tumbling

Behavior mechanism; Serotonin; Amitriptyline; Pigeon behavior (Smith, G.N.) **400**, 399

Turning

α -Kainic acid; γ -D-Glutamylaminomethylsulphonic acid; Substantia nigra; Caudate-putamen; Muscle tone; Catalepsy; Electromyogram; 6-Hydroxydopamine; Ibotenic acid (Turski, L.) **424**, 37

Turning behavior

Substantia nigra; Superior colliculus; Pulvinar-lateralis posterior complex; Kainic acid (Motles, E.) **405**, 165

Turnover

Amygdala; Brain nucleus; Dopamine; Limbic system; α -Methyltyrosine; Norepinephrine (Kilts, C.D.) **416**, 402

Turtle

Magnetoencephalography; Neuromagnetism; Biomagnetism; Magnetic evoked field; Cerebellum; Purkinje cell (Okada, Y.C.) **412**, 151

Co-occurrence; Cortex; Dorsal ventricular ridge; Basal ganglion; Somatostatin; Neuropeptide Y; Evolution (Reiner, A.) **426**, 149

Twitcher Mouse

Globoid cell leukodystrophy; Krabbe disease; Cuprizone; Demyelination; Blood-brain barrier (Kondo, A.) **425**, 186

Two-dimensional electrophoresis

Rat brain cortex; Plasma membrane; Abundant protein; Phosphorylation (Steisslinger, H.W.) **415**, 375

Protein phosphorylation; Protein kinase C; Neural plasticity; Rhesus monkey; Visual processing (Nelson, R.B.) **416**, 387

Mouse; Protein polymorphism; LTW-4; Ethanol acceptance; Pharmacogenetics;

Inbred strain; Recombinant inbred strain; Alcohol (Goldman, D.) **420**, 220

Two-generator hypothesis

Hippocampus; Brain; Transected slice; Carbachol; Theta (θ) (Konopacki, J.) **436**, 217

M-Tyramine

p-Tyramine; *p*-Tyrosine; Dopamine; 3,4-Dihydroxyphenylacetic acid; Homovanillic acid; Mesolimbic system; Pargyline (Sardar, A.) **412**, 370

p-Tyramine

M-Tyramine; *p*-Tyrosine; Dopamine; 3,4-Dihydroxyphenylacetic acid; Homovanillic acid; Mesolimbic system; Pargyline (Sardar, A.) **412**, 370

Tyrosine

Retina; Tyrosine hydroxylation; Protein meal; Rat (Fernstrom, M.H.) **401**, 392

Norepinephrine release; Brain slice; Electrical stimulation; Desipramine; Hypothalamus; Rat (Irie, K.) **423**, 391

Tyrosine hydroxylase

Double staining; Mirror technique; Nigrostriatal; Synaptic interaction; Substance P (Kawai, Y.) **401**, 371

Dopamine; 3,4-Dihydroxyphenylalanine (DOPA); NSD-1015; Ventral tegmental area; Nucleus accumbens; Striatum; Olfactory tubercle; Brain-stimulation reward; Food reward (Phillips, A.G.) **402**, 109

Weaver mutant mouse; Substantia nigra; Ventral tegmental area; Locus coeruleus; Immunocytochemistry (Gupta, M.) **402**, 379

Dopamine; γ -Aminobutyric acid; Glutamic acid decarboxylase; Coexistence; Olfactory bulb; Postnatal development; Immunohistochemistry (Kosaka, K.) **403**, 355

Glutamate decarboxylase; Rat; Neostriatum; Immunohistochemistry; Synaptic input (Kubota, Y.) **406**, 147

Nucleus basalis cell; Choline acetyltransferase; Immunohistochemistry; Co-localization; Ferret (Henderson, Z.) **412**, 363

Area postrema; Noradrenaline; Parabrachial area; Serotonin (Miceli, M.O.) **412**, 381

Norepinephrine; Mediobasal hypothalamus; Acute starvation; Semistarvation (Philipp, E.) **413**, 53

Choline acetyltransferase; Rat neostriatum; Immunohistochemistry; Electron microscopy (Kubota, Y.) **413**, 179

Ciliary ganglion; Catecholamine; Dopamine; Immunohistochemistry; Fluorescence histochemistry; Mammal (Uemura, Y.) **416**, 200

Dopaminergic neuron; Dwarf mouse; Immunocytochemistry; Prolactin (Phelps, C.J.) **416**, 354

Monoclonal antibody; Phenylalanine hydroxylase; Tryptophan hydroxylase; Immunocytochemistry; Brain (Haan, E.A.) **426**, 19

Basal ganglia; Globus pallidus; Dopamine; Primate; Immunohistochemistry (Parent, A.) **426**, 397

Midbrain; Electron microscopy; Radioautography; Immunocytochemistry (Hervé, D.) **435**, 71

Substantia nigra pars compacta; Striatum; Caudate nucleus; Putamen; Striosome; Acetylcholinesterase; Dopamine (Jimenez-Castellanos, J.) **437**, 349

Tyrosine hydroxylase immunohistochemistry

Noradrenergic neuron; Sympathoexcitatory neuron; Sympathoinhibitory neuron; Area postrema; Fluoro-Gold (Blessing, W.W.) **419**, 336

Tyrosine hydroxylation

Retina; Tyrosine; Protein meal; Rat (Fernstrom, M.H.) **401**, 392

Tyrosine-hydroxylase

Dopamine; Norepinephrine; Prolactin; Hyperprolactinemia; Pituitary tumor; Ectopic pituitary (Fernandez-Ruiz, J.J.) **421**, 65

p-Tyrosine

p-Tyramine; *M*-Tyramine; Dopamine; 3,4-Dihydroxyphenylacetic acid; Homovanillic acid; Mesolimbic system; Pargyline (Sardar, A.) **412**, 370

U

U-50488H

Ischemia; Edema; Hyperosmotic agent; Diuresis (Silvia, R.C.) **403**, 52

κ -Agonist; Intrathecal administration; Spinal cord; Rat dorsal horn; κ -Opioid receptor; Antinociception; Analgesia; Ethylketocyclazocine; Dynorphin A₁₋₁₃ (Knox, R.J.) **415**, 21

U-69593

Dopamine; Opioid; Morphine; SCH 23390; Reinforcement; Motivation; Place conditioning (Shippenberg, T.S.) **436**, 169

Ultrastructure

Endoneurial microvessel; Fixation;

Vasomotor tone; Histologic measurement; Endothelial cell; Basement membrane (Schenone, A.E.) **402**, 151

Immunocytochemistry; Adrenaline; Brainstem; C₁ area; Catecholamine (Milner, T.A.) **411**, 28

Neural transplant; Catecholamine; Synapse; Immunocytochemistry (Silverman, W.F.) **412**, 375

Acetylcholinesterase; Chicken; Histochemistry; Immunohistochemistry; Retina (Millar, T.J.) **421**, 297

Cat; Neuroanatomic tracing; Lateral cervical nucleus; Spinal afference (Svensson, B.A.) **423**, 229

Somatostatin; Cerebral cortex; Immunohistochemistry (Mizukawa, K.) **426**, 28

Ultraviolet

Peromyscus leucopus; Pineal melatonin; Visible light; Wavelength (Benshoff, H.M.) **420**, 397

Unanesthetized animal

Cytochrome *aa*₃ redox state; Cortical oxidative metabolism; Cortical blood volume; Reflectance spectrophotometry; Cortical window; Carotid occlusion (Vern, B.A.) **415**, 188

Uncrossed

C₃-C₅ propriospinal neuron; Crossed; Monosynaptic excitatory postsynaptic potential; Higher motor center; Primary afferent (Alstermark, B.) **404**, 382

Unilateral cerebral drug administration

Haloperidol; Amphetamine; Pharmacokinetics; Interhemispheric relationship (Hyde, J.F.) **421**, 117

Unimodal neuron

Cortex; Single neuron recording; Bimodal neuron; Association cortex (Minciocchi, D.) **410**, 21

Unit activity

Transplantation; Hippocampus; Electroencephalogram; Behavior; θ -Activity (Buzsáki, G.) **400**, 321

Regeneration; Embryonic transplant; θ -Activity; Electroencephalogram; Hippocampus; Septum; Locus coeruleus; Behavior (Buzsáki, G.) **400**, 334

Pulvinar; Auditory; Movement; Behavior; Monkey (Yirmiya, R.) **402**, 93

Ponto-geniculo-occipital (PGO); Sleep; Lateral geniculate nucleus; Development; Cat (Davenne, D.) **409**, 1

Anterior cingulate cortex; Posterior cingulate cortex; Learning and

memory; Hippocampus; Lesion (Gabriel, M.) **409**, 151

Antidromic activation; Dopaminergic neuron; Medial forebrain bundle; Neostriatum; In vivo voltammetry (Kuhnr, W.G.) **418**, 122

Suprachiasmatic nucleus; Hypothalamus; Arousal state (Glotzbach, S.F.) **419**, 279

Aversion; Brain stimulation; Local neuronal circuitry; Mesencephalon; Periaqueductal gray; Rat; Spike train; Stochastic process (Sandner, G.) **421**, 150

Unitary excitatory postsynaptic potential

Descending fiber; Motoneuron connexion; Horseradish peroxidase staining; Quantal analysis (Babalian, A.L.) **407**, 394

Unmyelinated axon

Antibody to nerve growth factor; Nerve growth factor; Axonal sprouting (Hulsebosch, C.E.) **411**, 267

Renal afferent nerve: antidromic activation; Myelinated axon; Dorsal root (Knuepfer, M.M.) **435**, 167

Unmyelinated fiber

Filipin; Cholesterol; Freeze-fracture (Allt, G.) **416**, 166

Ventral root afferent; Collision technique; Refractory period; Dorsal root ganglion cell; Single unit activity (Kim, J.) **417**, 304

Unstirred bathing

Extracellular diffusion; Slice; Tetramethylammonium profile; Tortuosity; Volume fraction (Lipinski, H.-G.) **437**, 26

Upregulation

Receptor autoradiography; μ Opioid receptor; δ Opioid receptor; κ Opioid receptor; Amygdala; Naloxone (Paden, C.M.) **418**, 349

Morphine; Naloxone; Naltrexone; Antinociception; Opioid receptor (Stevens, C.W.) **425**, 388

Uptake

Hippocampal slice; 2-Amino-4-phosphonobutyrate; 2-Amino-6-phosphonohexanoate-glutamate; Quisqualate; α -Amino-3-hydroxy-5-methyl-4-isoxazolepropionate (AMPA); Excitatory amino acid (Harris, E.W.) **418**, 361

Intracellular calcium; Release; Inositol trisphosphate; Brain microsome (Shah, J.) **419**, 1

Uptake of dopamine

Brain slice; Voltammetry; Dopamine overflow; Diffusion of dopamine (Kelly, R.S.) **423**, 79

Urethane

Rat; Micturition reflex; Somato-vesical

reflex; Vesico-vesical reflex; Bladder voiding; Sensory neuron; Sensory-efferent function (Maggi, C.A.) **415**, 1

Ibotenic acid; Septum; Hippocampus; Rhythmical slow activity; Cholinergic neuron; Septohippocampal system; Serotonin (Stewart, D.J.) **423**, 88

Uric acid

Allopurinol; Cerebrospinal fluid; Xanthine oxidase; Oxipurinol (Kim, P.) **402**, 87

5-Hydroxyindole; Spinal cord; Voltammetry; Electrochemistry (Rivot, J.P.) **419**, 201

Serotonin; Catecholamine; High-pressure liquid chromatography; Electrochemical detection; Rat spinal cord (Basbaum, A.I.) **419**, 229

Urinary bladder

Intramural ganglion; Tissue culture; Electrophysiology; Autonomic nerve (Pittam, B.S.) **403**, 267

Capsaicin; Primary sensory afferent; Spinal cord; Horseradish peroxidase; Selective degeneration (Jancsó, G.) **418**, 371

Parabrachial nucleus; Electrical stimulation; DL-Homocysteic acid (Lumb, B.M.) **435**, 363

Urinary water excretion

Vasopressin; Renin; Blood pressure; Catecholamine; Thirst (Davis, B.J.) **405**, 1

Urodele amphibian

Area octavolateralis; Horseradish peroxidase; In vitro; Lateral lemniscus; Lateral line (Gonzalez, A.) **423**, 338

Uvula

Corticovestibular projection; Nodulus; Zone; Cat (Shojaku, H.) **416**, 100

Pseudocholinesterase; Cerebellum; Nodulus; Sagittal zone; Purkinje cell; Bergmann glia (Gorenstein, C.) **418**, 68

V

Veratridine- and potassium-induced release

Glutamate release; Calcium dependence of release; Tetrodotoxin; Anoxia; Hypoxia; Rat; Development of release (Minc-Golomb, D.) **402**, 255

V₁/V₂ receptor

Vasopressin; 1-Desamino-8-D-arginine vasopressin; Fever; Interleukin-1; Neuropeptide; Vasopressor antagonist

(Naylor, A.M.) **401**, 173

Vagal afferent

Medulla; Spinal inhibition; Pain; [D-Ala²]Methionine enkephalinamide (DALA) (Randich, A.) **411**, 236

5-Hydroxytryptamine; Temperature; Rat; Sucrose gap (Pike, G.K.) **413**, 388

Vagal afferent fiber

Autoradiography; Gastroduodenum; Axonal transport; Nodose ganglion; Rabbit (Sato, M.) **400**, 101

Autoradiography; Nodose ganglion; Axonal transport; Epiglottis; Rabbit (Sato, M.) **410**, 101

Vaginal distension

Oxytocin cell; Milk ejection; Suckling stimulus; Paraventricular nucleus (Negoro, H.) **404**, 371

Vagotomy

β -Endorphin; Acid secretion; Gastrin; Autonomic nervous system (Lenz, H.J.) **413**, 1

Vagus

Cholecystokinin; Receptor; Satiety (Moran, T.H.) **415**, 149

Glossopharyngeal; Accessory nerve; Elasmobranch; Horseradish peroxidase; Nucleus ambiguous (Barry, M.A.) **425**, 159

Vagus nerve

Sensory nerve fiber; Sensory receptor; Lower esophageal sphincter; Wheat germ agglutinin-horseradish peroxidase; Axonal anterograde transport; Cat (Clerc, N.) **424**, 216

Valproate

Anticonvulsant; Hippocampus; Inhibitory postsynaptic potential (Preisendorfer, U.) **435**, 213

Valproic acid

γ -Aminobutyric acid (GABA); Enkephalin; Pro-enkephalin-related peptide; Analgesia (Vion-Dury, J.) **408**, 243

Anticonvulsant; Cerebrospinal fluid; Biogenic amine metabolite; Lactic acid; Organic acid transport (MacMillan, V.) **420**, 268

Vanadate

Vanadyl; Insulin; Glucose transport; Hyperglycemia; Central nervous system; Autonomic nervous system; Mouse (Amir, S.) **419**, 392

Vanadyl

Vanadate; Insulin; Glucose transport; Hyperglycemia; Central nervous system; Autonomic nervous system; Mouse (Amir, S.) **419**, 392

Variability

Tail flick reflex; Rat; Response latency (Ness, T.J.) **426**, 169

Varicosity

Axonal transport; Bulk transport; Axon; Retinal culture; Goldfish

(Edmonds, B.) **406**, 288

Vascular permeability

Neural transplant; Adrenal medulla; Blood-brain barrier; Macromolecule; Catecholamine (Rosenstein, J.M.) **414**, 192

Vascular reactivity

Hypertension; CO₂ reactivity; Hypercapnia; Hypocapnia; Freeze substitution (Yoshida, F.) **412**, 1

Vascular resistance

Stimulation-produced antinociception; Arterial pressure; Heart rate; Lateral reticular nucleus; Glutamate microinjection (Janss, A.J.) **405**, 140

Blood flow; Common carotid artery; Medulla; Reticular formation (Kuo, J.S.) **417**, 181

Vasoactive intestinal peptide

Brain-gut peptide; Secretin; Peptide histidine isoleucine amide; Preoptic area; Luteinizing hormone; Prolactin (Kimura, F.) **410**, 315

Myenteric neuron; Cell culture; Rat; Co-transmitter; Acetylcholine; Somatostatin (Willard, A.L.) **422**, 163

Vasoactive intestinal polypeptide

Retinal neuron; Cell culture; Retina-muscle synapse; Cholinergic transmission (Fukuda, M.) **414**, 177

Cerebrospinal fluid; Circadian rhythm; Sleep; Vasopressin (Kruisbrink, J.) **419**, 76

Retina; Amacrine cell; Immunohistochemistry (Sagar, S.M.) **426**, 157

Vasoactive-intestinal peptide

Brain; Acid secretion (Hernandez, D.E.) **420**, 129

Vasoconstriction

Hippocampal slice; Tissue hypoxia; Neural excitability (Topple, A.) **406**, 308

Sympathetic nervous system; Pituitary; Brainstem; Cardiovascular signal; Periaqueductal gray; Dorsal rostral pons (Ward, D.G.) **407**, 369

Vasodilation

Acetylcholine release; Atropine sulfate; Cerebral cortex; Cerebral blood flow; Fastigial nucleus (Arnerić, S.P.) **411**, 212

Vasomotor center

A1-cell group; Caudal ventrolateral medulla; Catecholamine metabolism; In vivo voltammetry; Baroreceptor reflex; Central cardiovascular control; Rat (Quintin, L.) **425**, 319

Vasomotor tone

Endoneurial microvessel; Fixation; Ultrastructure; Histologic measurement; Endothelial cell; Basement membrane (Schenone, A.E.) **402**, 151

Vasopressin

NADPH diaphorase; Neurohypophysis; Oxytocin; Functional activity (Sagar, S.M.) **400**, 348

1-Desamino-8-D-arginine vasopressin; Fever; Interleukin-1; Neuropeptide; Vasopressor antagonist; V₁/V₂ receptor (Naylor, A.M.) **401**, 173

Corticotropin releasing factor; Glucocorticoid; Neurosecretion; Paraventricular nucleus; Steroid feedback (Sawchenko, P.E.) **403**, 213

γ -Aminobutyric acid (GABA); Blood pressure; Nucleus tractus solitarius; Neurotransmitter; Hypertension; Muscimol (Catelli, J.M.) **403**, 279

Renin; Blood pressure; Catecholamine; Thirst; Urinary water excretion (Davis, B.J.) **405**, 1

A₁ cell group; Adrenocorticotropin; Catecholaminergic pathway; Hemorrhage; Ventrolateral medulla; Electrolytic lesion (Carlson, D.E.) **406**, 385

Aging; Circadian rhythm; Enriched environment; Male rat; Morphometry; Suprachiasmatic nucleus (Rooszendaal, B.) **409**, 259

Footshock; Hypovolemia; Osmotic stimulation; Rat; Synergism (Shibuki, K.) **410**, 140

Locus coeruleus; Central nervous system; Blood pressure; Heart rate; Glutamate; 6-Hydroxydopamine (Sved, A.F.) **414**, 119

Fever; Arginine vasopressin; Indomethacin; Set point; Thermoregulation (Wilkinson, M.F.) **415**, 275

Cerebrospinal fluid; Circadian rhythm; Sleep; Vasoactive intestinal polypeptide (Kruisbrink, J.) **419**, 76

Hypophysectomy; Neurosecretory neuron; Regeneration; Median eminence; Immunohistochemistry; Oxytocin; Postnatal development (Kawamoto, K.) **422**, 106

Circadian rhythm; Suprachiasmatic nucleus; Pacemaker; Organ culture (Earnest, D.J.) **422**, 398

Intracranial pressure; Oxytocin; Cerebrospinal fluid vasopressin; Blood pressure; Goat (Seckl, J.R.) **423**, 279

Norepinephrine; Hypothalamus; Lamina terminalis; Median preoptic nucleus; Supraoptic nucleus; Fluid balance; α -Methyl tyrosine (Wilkin, L.D.) **423**, 369

Autoradiography; Brattleboro rat; Dehydration; Dynorphin; κ -Opiate receptor; Receptor localization (Brady, L.S.) **425**, 212

Somatostatin; Analogue; Hemorrhage; Sheep (Wang, X.) **436**, 199

Auditory pathway; Brainstem; Guinea pig; Immunocytochemistry; Neuropeptide; Sexual dimorphism (Dubois-Dauphin, M.) **437**, 151

Adrenalectomy; Corticotropin-releasing factor; Hypothalamus; Paraventricular nucleus (Sawchenko, P.E.) **437**, 253

Vasopressin neuron

Paraventricular nucleus; Thermosensitivity; Slice preparation; Phasic firing neuron; Body water balance (Inenaga, K.) **424**, 126

Vasopressinergic neuron

Calcium gluconate; Arginine vasopressin; Hypothalamus; Catecholamine; Blood pressure (Benetos, A.) **412**, 182

Vasopressor antagonist

Vasopressin; 1-Desamino-8-D-arginine vasopressin; Fever; Interleukin-1; Neuropeptide; V₁/V₂ receptor (Naylor, A.M.) **401**, 173

Vasospasm

Microvessel; Tetrodotoxin; Neurogenic control; Hippocampal slice (Cach, R.L.) **421**, 370

Velocity store

Otolith; Semicircular canal; Off-vertical-axis rotation; Vestibulo-ocular reflex; Optokinetic nystagmus; Cat (Harris, L.R.) **437**, 393

Ventral lateral geniculate nucleus

Circadian rhythm; Immunocytochemistry; Intergeniculate leaflet; Neuropeptide Y; Suprachiasmatic nucleus (Harrington, M.E.) **410**, 275

Superior colliculus; Dorsal lateral geniculate nucleus; Nucleus lateralis posterior; Parabigeminal nucleus; Pretectal area (Lugo-Garcia, N.) **426**, 131

Ventral lateral thalamus

Evoked potential; Amygdala kindling; Systemic penicillin epilepsy; Motor cortex; Cat; Sleep-wake cycle (Shouse, M.N.) **425**, 198

Ventral medulla

Substance P; Retrograde transport; Rhodamine-labeled latex microsphere; Nucleus reticularis paraventricular lateral; Intermediolateral cell column (Charlton, C.G.) **418**, 245

Regulation of respiration; Glutamate; Phrenic nerve; Arterial pressure; Cat (Lawing, W.L.) **435**, 322

Ventral noradrenergic bundle

Oxytocin; Arginine-vasopressin; Noradrenaline; Stress; Sexual dimorphism (Carter, D.A.) **406**, 313

Ventral noradrenergic tract

Medial preoptic area; Luteinizing hormone; Testosterone; Naloxone; Androgenization; Sexual differentiation; Rat (Grossmann, R.) **415**, 205

Ventral pallidum

Mediodorsal nucleus of the thalamus; Substantia innominata; Motor control; Horseradish peroxidase; Electrophysiology (Mogenson, G.J.) **404**, 221

Locomotor activity; Dopamine; Nucleus accumbens; Dorsomedial nucleus of the thalamus; Medial prefrontal cortex; Pedunculopontine nucleus; Apomorphine; Picrotoxin; Behavior (Swerdlow, N.R.) **412**, 233

Ventral root

Dorsal root ganglion; Afferent fiber; Bifurcation projection; Calcitonin gene-related peptide; Rat (Fang, X.-B.) **402**, 393

Ventral root afferent

Collision technique; Refractory period; Dorsal root ganglion cell; Unmyelinated fiber; Single unit activity (Kim, J.) **417**, 304

Ventral spinal cord

Serotonin; Raphe nucleus; Dorsal spinal cord; Image analysis (Carlton, S.M.) **426**, 310

Ventral striatum

Dopamine; Enkephalin; Substance P; Dorsal striatum; Immunoreactivity pattern (Voorn, P.) **412**, 391

Ventral tegmental area

Food deprivation; Frontal cortex; Mesocortical; Dopamine; Stress (Carlson, J.N.) **400**, 200

Dopamine;

3,4-Dihydroxyphenylalanine (DOPA); NSD-1015; Tyrosine hydroxylase; Nucleus accumbens; Striatum; Olfactory tubercle; Brain-stimulation reward; Food reward (Phillips, A.G.) **402**, 109

Weaver mutant mouse; Substantia nigra; Locus coeruleus; Tyrosine hydroxylase; Immunocytochemistry (Gupta, M.) **402**, 379

Neurotensin; Reward; Self-injection (Glimcher, P.W.) **403**, 147

Dopamine; Noradrenaline; Septum; Frontal cortex; Attention; Conditioned blocking; Active avoidance (Oades, R.D.) **406**, 136

BALB/c mouse strain; CBA mouse strain; Substantia nigra zona compacta; Caudate; Met-Enkephalin; Micropunch; Radioimmunoassay (Sanghera, M.K.) **412**, 200

Monkey; Single neuron activity; Dopamine; Feeding; Motor; Motivation; Vocalization (Nishino, H.) **413**, 302

Conditioned place preference; Dopamine; Opioid reward; Microinjection; Morphine; Reward system (Bozarth, M.A.) **414**, 77

A10 dopamine neuron; Enkephalin;

Footshock; Dopamine turnover (Kalivas, P.W.) **414**, 339

Antipsychotic drug; Schizophrenia; Dopamine; Dopamine neuron; Substantia nigra (Hand, T.H.) **415**, 257

1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP); Parkinson's disease; African Green monkey; Mesolimbic; Nigrostriatal; Cerebrospinal fluid; Dopamine; Homovanillic acid; 3-Methoxy-4-hydroxyphenylglycol (MHPG) (Elsworth, J.D.) **415**, 293

Nucleus accumbens; Morphine; Enkephalin; μ -Opioid receptor; Locomotor activity; Sensitization; Dopamine (Vezina, P.) **417**, 51

Stress; Neurotensin; Dopamine; Somatostatin; Corticotropin-releasing factor (Deutch, A.Y.) **417**, 350

Occipital cortex; Forebrain; Substantia nigra pars compacta; Neuroanatomical differentiation; Horseradish peroxidase; Retrograde double labeling; Rat (Takada, M.) **418**, 27

Opioid; Brain stimulation reward; Lateral hypothalamus (Jenck, F.) **423**, 34

Opioid; Feeding; Periaqueductal gray; Lateral hypothalamus (Jenck, F.) **423**, 39

Cholecystokinin; Dopamine; Electrophysiology; Co-transmitter; In vitro slice (Brodie, M.S.) **425**, 106

Ventral tegmental decussation

Crossed nigrostriatal projection; Crossed mesostriatal projection; Substantia nigra; Horseradish peroxidase; 6-Hydroxydopamine (Douglas, R.) **418**, 111

Ventral tegmental nucleus

L-Enkephalin; Dorsal tegmental nucleus; Fiber connection; Mammillary body; Interpeduncular nucleus; Immunocytochemistry; Rat (Yamano, M.) **408**, 22

Ventrobasal neuron

Vibrissa; Receptive field; Thalamic reticular neuron; Rat (Sumitomo, I.) **415**, 389

Ventrolateral medulla

Locus coeruleus; Adrenergic neuron; Anterograde neuroanatomical tracing (Guyenet, P.G.) **406**, 171

A₁ cell group; Adrenocorticotropin; Catecholaminergic pathway; Hemorrhage; Electrolytic lesion; Vasopressin (Carlson, D.E.) **406**, 385

Baroreflex; Nucleus tractus solitarius; Excitatory amino acid (Guyenet, P.G.) **407**, 272

Catecholamine metabolism; In vivo electrochemistry; Central nervous system cardiovascular control;

Hemorrhagic shock; Controlled hypotension; Clonidine; Rat (Gillon, J.-Y.) **418**, 157

α_2 -Adrenergic receptor; Clonidine; Idazoxan; Pressor area; Spontaneously hypertensive rat; Wistar-Kyoto rat (Punnen, S.) **422**, 336

Locus coeruleus; Antidromic activation; Norepinephrine; Nucleus paragigantocellularis (Ennis, M.) **425**, 275

Ventromedial hypothalamic nucleus

Recovery of function; Dopamine; Defensive attack; Lateral septum; Gating mechanism (Maeda, H.) **407**, 381

Rat; Ibotenic acid; Food intake; Hyperphagia; Body weight; Obesity (Shimizu, N.) **416**, 153

Ventromedial hypothalamus

Zucker rat; Brown adipose tissue; Sympathetic efferent; Supraoptic nucleus; Lateral hypothalamus; Dorsomedial nucleus (Holt, S.J.) **405**, 227

Monosodium glutamate; Bipiperidyl mustard; Cholecystokinin; Paraventricular nucleus; Insulin; Hyperphagia; Feeding; Obesity (Scallet, A.C.) **407**, 390

Leuomorphin; Lordosis; Prolactin; Midbrain central gray (Sakuma, Y.) **407**, 401

Defence reaction; Dopaminergic system; A10 region; Inhibition; Sulpiride (Piazza, P.V.) **413**, 356

Transplant; Neural graft; Obesity; Lesion; Hyperphagia; Feeding; Consummatory behavior (Mickley, G.A.) **424**, 239

Female hamster; Dual estradiol implant; Bilateral estradiol implant; Agonistic behavior; Scent-marking behavior; Lordosis; Medial preoptic area (Takahashi, L.K.) **425**, 337

Affective defense behavior; Anterior hypothalamus; Intracerebral injection; Noradrenaline; Yohimbine (Barrett, J.A.) **426**, 381

Ventromedial nucleus

Prefrontal cortex; Mediodorsal nucleus; Thalamocortical projection; Cat (Martínez-Moreno, E.) **407**, 17

Corticotropin releasing factor; Gastric acid; Paraventricular nucleus; Lateral hypothalamus; Caudate-putamen (Gunion, M.W.) **411**, 156

γ -Aminobutyric acid; Immunohistochemistry; Substantia nigra; Superior colliculus; Neuronal hypertrophy; Axonal sprouting (Pearson, R.C.A.) **412**, 352

Gastrin; Hypothalamus; Lateral

hypothalamus; Brain; Microinfusion; Gastric secretion; Caudate-putamen (Gunion, M.W.) **422**, 118

Ventroposterolateral nucleus
Cholecystokinin; Thalamus; Immunocytochemistry; Dorsal column nucleus (Hunt, C.A.) **426**, 257

Verapamil
Corticotropin-releasing factor (CRF); Epilepsy; Naloxone (Marrosu, F.) **408**, 394

Analgesia; Activity; Stress; Stress-induced analgesia; Calcium channel antagonist; Diltiazem; Nifedipine; BAY K 8644; Opioid analgesia (Kavaliers, M.) **408**, 403

Veratridine
Rainbow trout brain synaptosome; Voltage-dependent sodium channel; Aconitine; Batrachotoxin; Tetrodotoxin; *Leiurus quinquestriatus* venom; DDT (Stuart, A.M.) **437**, 77

Vertebrate
Retinal bipolar cell; Subpopulation; Monoclonal antibody; MAb 5A10; Cell-surface antigen; Frog (Onoda, N.) **416**, 359

Vertebrate brain
Microtubule-associated protein 2; Evolution; Phylogeny; Monoclonal antibody; Protein phosphorylation (Fischer, I.) **436**, 39

Vertebrate central nervous system
Ca²⁺ current; Ca²⁺ spike; Inactivation; Conductance; Hippocampus; Voltage-clamp (Pitler, T.A.) **410**, 147

Very late response
Viscerosympathetic reflex; Cardiac afferent; Renal nerve (Lukoshkova, E.V.) **412**, 357

Vesico-vesical reflex
Rat; Micturition reflex; Somato-vesical reflex; Urethane; Bladder voiding; Sensory neuron; Sensory-efferent function (Maggi, C.A.) **415**, 1

Vestibular complex
Locus coeruleus; Vestibular nucleus; Deiters' nucleus; Horseradish peroxidase; Brainstem (Fung, S.J.) **401**, 347

Vestibular efferent neuron
Abducens nucleus; Choline acetyltransferase; Leucine enkephalin; Olivocochlear bundle; Periolivary nucleus; Superior olivary complex (Carpenter, M.B.) **408**, 275

Vestibular end organ
 γ -Aminobutyric acid (GABA); Chick (Usami, S.-I.) **418**, 383

Vestibular endorgan
 γ -Aminobutyric acid (GABA); Immunoreactivity; Efferent system; Squirrel monkey (Usami, S.-I.) **417**, 367

Vestibular evoked response
Second-order single unit (Elidan, J.) **423**, 385

Vestibular hair cell
Calcium-binding protein (CaBP-28k); Immunocytochemistry (Sans, A.) **435**, 293

Vestibular neuron
Otolith; Head tilt; Slow constant velocity rotation; Clockwise and counterclockwise direction (Chan, Y.S.) **406**, 294

Vestibular nuclei
 γ -Aminobutyric acid (GABA); Aspartate; Immunohistochemistry; Guinea pig (Kumoi, K.) **416**, 22

Vestibular nucleus
Locus coeruleus; Vestibular complex; Deiters' nucleus; Horseradish peroxidase; Brainstem (Fung, S.J.) **401**, 347
C₃-C₅ propriospinal neuron; Monosynaptic excitatory postsynaptic potential; Monosynaptic inhibitory postsynaptic potential (Alstermark, B.) **404**, 389

Midbrain reticular stimulation; Cerebellum; Flocculus; 2-Deoxyglucose; Learning (Gonzalez-Lima, F.) **412**, 275

Choline acetyltransferase; Cell group x; Cell group z; Nucleus prepositus (Carpenter, M.B.) **418**, 403

N-Methyl-D-aspartate; Acidic amino acid receptor; Dendritic cable property; Modulator; In vitro (Knöpfel, T.) **426**, 212

Vestibular reflex
Eye-head coordination; Gaze stabilization; Quick phase; Saccade (Dieringer, N.) **404**, 33

Vestibulo-ocular reflex
Vestibulo-ocular reflex modification; Vestibulo-ocular reflex direction adaptation (Baker, J.) **408**, 339

Optokinetic reflex; Semicircular canal; Otolith; Rabbit; Linear acceleration; Angular acceleration; Eye movement (Barmack, N.H.) **424**, 89

Otolith; Semicircular canal; Off-vertical-axis rotation; Optokinetic nystagmus; Cat; Velocity store (Harris, L.R.) **437**, 393

Vestibulo-ocular reflex direction adaptation
Vestibulo-ocular reflex; Vestibulo-ocular reflex modification (Baker, J.) **408**, 339

Vestibulo-ocular reflex modification
Vestibulo-ocular reflex; Vestibulo-ocular reflex direction adaptation (Baker, J.) **408**, 339

Vestibuloocular reflex
Optokinetic reflex; Adaptive plasticity;

Eye movement; Rabbit (Barmack, N.H.) **437**, 111

Vibration
Somatosensory cortex; Rhesus monkey; Movement; Corollary discharge (Nelson, R.J.) **406**, 402

Vibrissa
Receptive field; Thalamic reticular neuron; Ventrobasal neuron; Rat (Sumitomo, I.) **415**, 389

Video microscopy
Axon; Axonal transport; Mitochondria; Organelle movement (Forman, D.S.) **412**, 96

Vinblastine
Heat stress; 5-Hydroxytryptamine level; Blood-brain barrier permeability; Cerebral blood flow; *p*-Chlorophenylalanine; Indomethacin; Diazepam; Cyproheptadine (Sharma, H.S.) **424**, 153

γ -Vinyl GABA
Retina; Rat; γ -Aminobutyric acid (GABA); γ -Acetylenic GABA; Gabaculine (Cubells, J.F.) **419**, 208

γ -Vinyl γ -aminobutyric acid (GVG)
Substantia nigra; Thermocoagulative lesion; *N*-Methyl-D,L-aspartate (NMDA); Kindling development; Epileptogenesis (Shin, C.) **412**, 311

Visceral muscle
Octopamine; Proctolin; Release; Insect (Orchard, I.) **413**, 251

Visceral pain
Analgesia; Pain; Pain modulation; Thalamus (Girardot, M.-N.) **409**, 19

Viscerosomatic convergence
Cardiac pain; Thalamus; Nociception; Nucleus ventralis posterolateralis; Cat (Taguchi, H.) **436**, 240

Viscerosympathetic reflex
Cardiac afferent; Renal nerve; Very late response (Lukoshkova, E.V.) **412**, 357

Visible light
Peromyscus leucopus; Ultraviolet; Pineal melatonin; Wavelength (Benshoff, H.M.) **420**, 397

Visinin
Chick and pigeon retina; Calcium-binding protein; Calbindin D-27 kDa; Western blotting; Immunohistochemistry (Pasteels, B.) **412**, 107

Visual cognition
Inferotemporal neuron; Auditory signal; Selective attention; Monkey (Iwai, E.) **410**, 121

Visual cortex
Glutamate; Aspartate; Neurotransmitter; Pulvinar; Rat (Fosse, V.M.) **400**, 219

Bird; Isthmo-optic nucleus; Visual

Wulst; Centrifugal visual system (Uchiyama, H.) **406**, 322

Ferret; Source of cholinergic input; Retrograde transport; Choline acetyltransferase immunohistochemistry (Henderson, Z.) **412**, 261

Corpus callosum; Binocular interaction; Stereopsis; Disparity-sensitive neuron; Depth perception; Nasotemporal overlap; Ocular dominance; Cat (Gardner, J.C.) **413**, 60

Monocular deprivation; Lateral geniculate nucleus; Amblyopia; Visual development; Visual pathway (Christen, W.G.) **415**, 233

Visual topography; Striate area; Extrastriate area; Callosal connection; Microelectrode mapping; Horseradish peroxidase; Rat (Thomas, H.C.) **417**, 214

Peptide; Co-existence; Immunohistochemistry; Rat (Papadopoulos, G.C.) **420**, 95

Retina; Lateral geniculate nucleus; Pulvinar; Immunohistochemistry; Peptide; Cat (Bliss Tieman, S.) **420**, 188

Transplantation; Lateral geniculate nucleus; Slice preparation; Current source-density analysis; Intracellular analysis (Hamasaki, T.) **422**, 172

Basal forebrain; Wheat germ agglutinin-horseradish peroxidase (WGA-HRP); Basalocortical pathway; Rat (Carey, R.G.) **424**, 205

Visual cortex (EEG)

Cortex (visual); EEG (spatial pattern); Monkey (rhesus); Perception (visual); Spatial analysis (EEG) (Freeman, W.J.) **422**, 267

Visual deprivation

Optic lobe; Pattern discrimination; Fly; Behavior; Compound eye (Mimura, K.) **437**, 97

Visual development

Monocular deprivation; Visual cortex; Lateral geniculate nucleus; Amblyopia; Visual pathway (Christen, W.G.) **415**, 233

Visual input

Mauthner cell; Segregated synaptic input; Startle response; Mauthner cell ventral dendrite (Zottoli, S.J.) **401**, 113

Visual motion detection

Pretectum; Binocularity; Rotation selectivity; Salamander (Manteuffel, G.) **422**, 381

Visual pathway

Monocular deprivation; Visual cortex; Lateral geniculate nucleus; Amblyopia; Visual development (Christen, W.G.) **415**, 233

Aspartate; Dopamine; γ -Aminobutyric acid; Acetylcholine; Retina; Dark

adaptation; Light adaptation (Chentanez, T.) **424**, 115

Visual processing

Protein phosphorylation; Protein kinase C; Neural plasticity; Rhesus monkey; Two-dimensional electrophoresis (Nelson, R.B.) **416**, 387

Visual system

Pretectum; Ipsilateral retinal afferent; Contralateral retinal afferent; Directional selectivity (Sperl, M.) **404**, 332

Synapse; Bird; Monocular deprivation; Quantitative analysis (Nixdorf, B.) **405**, 326

Whisker; Oxidative enzyme; Denervation; Trigeminal system (Yip, V.S.) **406**, 157

Lateralization; Tectal commissure; Commissurotomy; Pigeon (Güntürkün, O.) **408**, 1

Optic tectum; Teleost; Retinofugal projection; Laminated structure; Retinotectal (von Bartheld, C.S.) **420**, 277

Visual topography

Visual cortex; Striate area; Extrastriate area; Callosal connection; Microelectrode mapping; Horseradish peroxidase; Rat (Thomas, H.C.) **417**, 214

Visual Wulst

Bird; Isthmo-optic nucleus; Visual cortex; Centrifugal visual system (Uchiyama, H.) **406**, 322

Visually initiated hand movement

Prefrontal cortex; Prestriate cortex; Cooling; Monkey (Sasaki, K.) **415**, 362

Visuomotor

Neuromuscular; Skeletal muscle; Lateral rectus muscle; Motoneuron degeneration (LaVail, J.H.) **404**, 127

Vitamin E

Subarachnoid hemorrhage; Blood flow; Intracranial pressure; Lipid peroxidation (Travis, M.A.) **418**, 366

Vocalization

Purring; Intercoastal activity; Cross-correlation; Stretch reflex; Small amplitude vibration (Kirkwood, P.A.) **405**, 187

Avian; Respiration; Nucleus tractus solitarius; Parabrachial nucleus; Tracheosyringeal motor nucleus (nXIIts) (Wild, J.M.) **407**, 191

Ventral tegmental area; Monkey; Single neuron activity; Dopamine; Feeding; Motor; Motivation (Nishino, H.) **413**, 302

Vocalization nucleus

Endogenous γ -aminobutyric acid (GABA) release; Brain slice; Zebra finch (Sakaguchi, H.) **410**, 380

Voltage clamp

Supraoptic neuron; Cell culture;

Na-current; Ba-current (Cobbett, P.) **409**, 175

Purkinje cell; Excitatory amino acid (Hamon, B.) **419**, 379

N-Methyl-D-aspartate receptor; Fictive locomotion; Impedance; Admittance; Voltage-dependent conductance; Excitatory synaptic current; Lamprey (Moore, L.E.) **419**, 397

Acrylamide neuropathy; Rat sciatic nerve; Node of Ranvier; Electron microscopy (Brismar, T.) **423**, 135

Acetylcholine; Cyclic guanosine monophosphate; Protein kinase; Cortex; Ionic conductance (Woody, C.D.) **424**, 193

Spinal cord neuron; Cell culture; Phencyclidine (PCP); Tetraethylammonium (TEA); 4-Aminopyridine (4-AP); Potassium channel; Action potential (Aguayo, L.G.) **436**, 9

Voltage-clamp

Ca²⁺ current; Ca²⁺ spike; Inactivation; Conductance; Hippocampus; Vertebrate central nervous system (Pitler, T.A.) **410**, 147

Voltage-dependent calcium channel

Calmodulin; Protein kinase C; Calcium channel antagonist; ⁴⁵Ca²⁺ uptake; PC12 cell line (Greenberg, D.A.) **404**, 401

Voltage-dependent channel

Potassium channel; Patch clamping; Inactivation; Non-inactivating current; *Helix* neuron (Ram, J.L.) **405**, 16

Voltage-dependent conductance

N-Methyl-D-aspartate receptor; Fictive locomotion; Voltage clamp; Impedance; Admittance; Excitatory synaptic current; Lamprey (Moore, L.E.) **419**, 397

Voltage-dependent g_K

Epinephrine; β -Adrenoceptor; Depolarization; M-channel (Akasu, T.) **405**, 375

Voltage-dependent sodium channel

Rainbow trout brain synaptosome; Aconitine; Batrachotoxin; Veratridine; Tetrodotoxin; *Leiurus quinquestriatus* venom; DDT (Stuart, A.M.) **437**, 77

Voltammetry

Spinal cord; 5-Hydroxyindole; Morphine; Probenecid; Nucleus raphe magnus (Chiang, C.-Y.) **411**, 259

5-Hydroxyindole; Spinal cord; Electrochemistry; Uric acid (Rivot, J.P.) **419**, 201

Brain slice; Dopamine overflow; Diffusion of dopamine; Uptake of dopamine (Kelly, R.S.) **423**, 79

Volume fraction

Extracellular diffusion; Slice;

Tetramethylammonium profile;
Unstirred bathing; Tortuosity
(Lipinski, H.-G.) **437**, 26

Voluntary response

Stretch reflex; M_2 response;
Preparation (Sullivan, S.J.) **412**, 139

Vomerolateral receptor cell

Olfactory receptor cell; Neuronal subset;
Lactoseries carbohydrate; Monoclonal
antibody (Mori, K.) **408**, 215

Von Ebner's gland

Autonomic nervous system; Tongue;
Circumvallate papilla; Salivary gland;
Taste (Gurkan, S.) **419**, 287

VPL nucleus

Electrical stimulation; Pain suppression
system; Local cerebral glucose
utilization; Parafascicular nucleus;
Dopaminergic nigrostriatal system
(Aiko, Y.) **408**, 47

W

Waking-sleeping cycle

Hypothalamic-preoptic neuron;
Thermosensitivity (Parmeggiani, P.L.)
415, 79

Wallerian degeneration

Ranvier's node; Frog; Sciatic nerve;
Freeze-fracturing; Myelin;
Demyelination; Axolemma (Ishise, J.)
418, 85

Mitosis; Endothelial cell; Ornithine
decarboxylase; RNA; Protein synthesis
(Oaklander, A.L.) **419**, 39

Water deprivation

Drinking; Organum vasculosum lamina
terminalis (OVLT); Anterior region of
the third cerebral ventricle (AV3V);
Sodium excretion (Thornton, S.N.)
437, 339

Wavelength

Peromyscus leucopus; Ultraviolet;
Pineal melatonin; Visible light
(Benshoff, H.M.) **420**, 397

Weaver mutant mouse

Substantia nigra; Ventral tegmental
area; Locus coeruleus; Tyrosine
hydroxylase; Immunocytochemistry
(Gupta, M.) **402**, 379

Dopamine; Dopamine D_2 receptor
binding assay; [3H]Spiperone; Striatum;
Nucleus accumbens; Supersensitivity
(Kaseda, Y.) **422**, 178

Nigral transplant; Dopamine; Striatum;
Rotational behavior; Functional
recovery; Parkinson disease
(Low, W.C.) **435**, 315

Western blotting

Chick and pigeon retina; Visinin;
Calcium-binding protein; Calbindin
D-27 kDa; Immunohistochemistry
(Pasteels, B.) **412**, 107

Lectin; Glycoprotein; Olfactory cilia;
Chemosensory receptor
(Kalinowski, D.L.) **418**, 34

Wet dog shake

Hippocampus; Perforant path; Opioid
peptide; Amino acid; Enkephalin;
Dynorphin; γ -Aminobutyric acid
(GABA) (Mitchell, C.L.)
435, 343

Wet-dog shakes

Thyrotropin-releasing hormone (TRH);
Antidepressant; Desipramine;
Nialamide (Sills, M.A.) **401**, 195

Wheat germ agglutinated horseradish peroxidase (WGA-HRP)

Cochlear nucleus; Dorsal column
nucleus; Spinal trigeminal nucleus; Cat
(Itoh, K.) **400**, 145

Wheat germ agglutinin

Transsynaptic transport; Olfactory
system (Itaya, S.K.) **409**, 205

Horseradish peroxidase; Anterograde
degeneration; Electron microscopy;
Substantia nigra; Superior colliculus;
Spinal cord; Cat (Tokuno, H.)
436, 76

Wheat germ agglutinin-horseradish peroxidase

Kainic acid; Terminal degeneration;
Tree shrew; Lateral geniculate
nucleus; Neurotoxin (Horn, K.M.)
416, 187

Cortical neuron collateral; Transcallosal
collateral; Axonal projection;
Corticostriatal projection (Ferino, F.)
417, 257

Sensory nerve fiber; Sensory receptor;
Vagus nerve; Lower esophageal
sphincter; Axonal anterograde
transport; Cat (Clerc, N.) **424**, 216

Wheat germ agglutinin-horseradish peroxidase (WGA-HRP)

Pigeon; Auditory thalamus; Lateral
lemniscus (Wild, J.M.) **408**, 303

Striatum; Putamen; Caudate nucleus;
Spinal trigeminal nucleus; Nociception;
Horseradish peroxidase (HRP); Cat
(Yasui, Y.) **408**, 334

Preteetum; Dorsal lateral geniculate
nucleus; Retina; Retinotopic map; Cat
(Kubota, T.) **421**, 30

Basal forebrain; Visual cortex;
Basalocortical pathway; Rat
(Carey, R.G.) **424**, 205

Sympathetic nerve; Superior cervical
ganglion; Pineal gland; Cerebral blood
vessel (Tamamaki, N.) **437**, 387

Wheat germ agglutinin-horseradish peroxidase conjugate

Collateral sprouting; Sensory axon;
Hairy skin; Dermatome; Spinal nerve
lesion; Anterograde transport;
Microinjection (Kinnman, E.)
414, 385

Wheat germ agglutinin-horseradish peroxidase

Somatosensory; Hyperstriatum;
Neostriatum; Thalamus; Avian
(Wild, J.M.) **412**, 205

Whisker

Oxidative enzyme; Denervation;
Trigeminal system; Visual system
(Yip, V.S.) **406**, 157

White matter

Neuroglia; Astrocyte; Glial fibrillary
acidic protein (GFAP); Spinal cord;
Rat (Liuzzi, F.J.) **403**, 385

White ramus

Sympathetic ganglion; Cervical
sympathetic trunk; Postganglionic
cardiac nerve; Evoked potential
(Szulczyk, A.) **421**, 127

Wide dynamic range (WDR) neuron

Spinal dorsal horn; Chronic awake cat;
Spontaneous activity (Collins, J.G.)
416, 34

Wind-up

Excitatory amino acid;
N-Methylaspartate; Spinal cord;
Ketamine (Davies, S.N.) **424**, 402

Wing mutant

Neural projection; Horseradish
peroxidase (HRP) labeling;
Neurogenetics (Inestrosa, N.C.)
416, 248

Wistar-Kyoto rat

α_2 -Adrenergic receptor; Clonidine;
Idazoxan; Pressor area; Spontaneously
hypertensive rat; Ventrolateral medulla
(Punnen, S.) **422**, 336

Wistar-Kyoto (WKY) rat

Neurotensin; Spontaneously
hypertensive (SH) rat; Brain;
Radioimmunoassay (Shulkes, A.)
415, 404

Withdrawal

β -Adrenergic receptor;
Supersensitivity; Norepinephrine;
Morphine dependence; Parietal cortex;
Receptor binding; Microiontophoresis
(Moises, H.C.) **400**, 110

Benzodiazepine; Hippocampal slice;
CA $_1$; Hyperexcitability (Davies, M.F.)
437, 239

Withdrawal distress

Opiate physical dependence;
Conditioned place preference;
Naltrexone; Quaternary naltrexone;
Morphine pellet; Abstinence
motivation (Mucha, R.F.) **418**, 214

Withdrawal jumping

Substance P; Presynaptic Ca^{2+} channel;
Morphine withdrawal (Ueda, H.)
425, 101

Wolfgram protein fraction

Monoclonal antibody; 2':3'-Cyclic
nucleotide 3'-phosphodiesterase
(CNPase); Oligodendrocyte; Schwann
cell; Cell marker enzyme
(Sprinkle, T.J.) **426**, 349

Working memory

AF64A; Cholinergic neurotoxin;
Learning and memory; Acetylcholine;
Hippocampus (Chrobak, J.J.) **414**, 15

Wound pattern

Brain stimulation-induced aggression;
Hypothalamus; Lactation; Maternal
aggression; Female; Pregnancy
(Mos, J.) **404**, 263

Wulst terminal

Bird; Dorsal lateral geniculate nucleus;
Relay neuron; Retinal terminal;
Synaptic glomerulus (Watanabe, M.)
401, 279

X**Xanthine oxidase**

Allopurinol; Uric acid; Cerebrospinal
fluid; Oxipurinol (Kim, P.) **402**, 87

Xenograft

Axon guidance; Retina; Cortex;
Allograft; Superior colliculus
(Hankin, M.H.) **408**, 344

Xenopus

Pituitary gland; Neurohypophysis;
Digital imaging technique;
Neurosecretion; Exocytosis; Secretory
granule; Stimulation-secretion coupling
(Terakawa, S.) **435**, 380

XII Premotor interneuron

Retrograde transneuronal transfer;
Herpes simplex virus (HSV); Herpes
simplex virus replication in neurones;
Astrocyte; Hypoglossal (XII)
motoneuron; Inferior olive; Bergmann

glial cell (Ugolini, G.) **422**, 242

X-irradiation

Map formation; Synapse elimination;
Cerebellum; Climbing fiber
(Mariani, J.) **421**, 211

Y**Yawning**

Apomorphine; Dopamine agonist;
Penile erection; Paraventricular nucleus
(Melis, M.R.) **415**, 98

Penile erection; Electrolytic lesion;
Paraventricular nucleus; Dopamine
agonist; Oxytocin; Adrenocorticotropin
(Argiolas, A.) **421**, 349

Yohimbine

Estrogen receptor; Norepinephrine;
Noradrenergic system; Phenylephrine;
Clonidine; Catecholamine;
Hypothalamus; α_2 -Noradrenergic
receptor (Blaustein, J.D.) **404**, 51

Clonidine; Isoproterenol;
Apomorphine; Thyrotropin secretion;
Propranolol; Phentolamine; Sulpiride
(Jaffer, A.) **404**, 267

Separation distress; Separation anxiety;
 α_2 -Adrenergic receptor; Isolation call;
Squirrel monkey; Clonidine
(Harris, J.C.) **410**, 353

Affective defense behavior; Anterior
hypothalamus; Ventromedial
hypothalamus; Intracerebral injection;
Noradrenaline (Barrett, J.A.) **426**, 381

Estrogen receptor; Catecholamine;
Noradrenaline; Noradrenergic system;
Hypothalamus; Pituitary gland;
 α_2 -Noradrenergic receptor
(Blaustein, J.D.) **436**, 253

Adult chronic spinal cat; Clonidine;
Locomotion; Cutaneous reflex;
Noradrenaline (Barbeau, H.) **437**, 83

Z**Zebra finch**

Estrogen receptor; Brain; Nucleus
hyperstriatum ventrale, pars caudale;
Immunocytochemistry; Canary
(Gahr, M.) **402**, 173

Endogenous γ -aminobutyric acid
(GABA) release; Vocalization nucleus;
Brain slice (Sakaguchi, H.) **410**, 380

Zinc

Calcineurin; Hippocampus;
Immunohistochemistry; Phosphatase;
Calmodulin; Peroxidase antiperoxidase
method (Matsui, H.) **402**, 193

Zona incerta

Subfornical organ; Medial preoptic
area; Angiotensin II; Osmoreceptor;
Thirst; Extracellular single-unit
recording (Mok, D.) **407**, 332

Corticotropin-releasing factor; Lateral
hypothalamic area; Afferents to the
inferior colliculus; Combination of
HRP and immunohistochemistry
(Sakanaka, M.) **414**, 68

Rat adrenal medulla; Adrenal
medullary secretion; Epinephrine
secretion; Norepinephrine secretion;
Subthalamus (Matsui, H.) **417**, 158

Creatine kinase (CK); Neuron; Lateral
hypothalamic area;
Immunohistochemistry; Mouse brain
(Ikeda, K.) **435**, 348

Zona incerta-lateral hypothalamus

Morphine; Catalepsy; Muscular
rigidity; Electromyogram; Picrotoxin;
Bicuculline methiodide (Wardas, J.)
408, 363

Zone

Corticovestibular projection; Uvula;
Nodulus; Cat (Shojaku, H.) **416**, 100

Zonisamide

Sodium current; Axon; Anticonvulsant;
Inactivation (Schauf, C.L.) **413**, 185

Zucker rat

Ventromedial hypothalamus; Brown
adipose tissue; Sympathetic efferent;
Supraoptic nucleus; Lateral
hypothalamus; Dorsomedial nucleus
(Holt, S.J.) **405**, 227

DEVELOPMENTAL BRAIN RESEARCH
AUTHOR INDEX

1987

VOLUMES 428-433, 465 (31-36, 37)

A

- Adem, A., Mattsson, M.E.K., Nordberg, A. and Pählman, S. Muscarinic receptors in human SH-SY5Y neuroblastoma cell line: regulation by phorbol ester and retinoic acid-induced differentiation, **33**, 235
- Aidinolfi, A., see Fisher, R., **33**, 215
- Adlersberg, M., see Liu, K., **32**, 31
- Ahmed, Z. and Fellows, R. Determination of the birth date and proliferative state of dissociated cells from fetal rat brain, **37**, 77
- Akagawa, K. and Barnstable, C.J. Selective localization of glycine-accumulating cells in reaggregate culture of rat retina, **31**, 124
- Akeson, R.A., see Wujek, J.R., **34**, 87
- Albus, K., see Wahle, P., **36**, 53
- Alho, H., see Byrd, J.C., **31**, 151
- Allen, D., see Johnson, A.E., **32**, 67
- Allen, E., Blakemore, L., Trombley, P. and Gordon, B. Timing of 6-hydroxydopamine administration influences its effects on visual cortical plasticity, **32**, 53
- Alvarado-Mallart, R., see Senut, M., **32**, 187
- Anderson, W.J., see Bellinger, D.L., **35**, 55
- Anderson, W.J., see Bellinger, D.L., **35**, 69
- Aoki, C., see Shaw, C., **37**, 67
- Arendash, G.W. and Gorski, R.A. Testosterone-induced enhancement of male medial preoptic tissue transplant volume in female recipients: a possible neuronotrophic action, **34**, 69
- Armson, P., Bennett, M.R. and Raju, T. Retinal ganglion cell survival and neurite regeneration requirements: the change from Müller cell dependence to superior colliculi dependence during development, **32**, 207
- Armstrong, D.M., Bruce, G., Hersch, L.B. and Gage, F.H. Development of cholinergic neurons in the septal/diagonal band complex of the rat, **36**, 249
- Arthur, F.E., Shivers, R.R. and Bowman, P.D. Astrocyte-mediated induction of tight junctions in brain capillary endothelium: an efficient in vitro model, **36**, 155
- Arvidsson, U., Svedlund, J., Lagerbäck, P.-Å and Culheim, S. An ultrastructural study of the synaptology of γ -motoneurons during the postnatal development in the cat, **37**, 303
- Ashwell, K.W.S. and Webster, W.S. Vascularity and cytochrome oxidase distribution in the occipital cortex in MAM Ac-induced micrencephaly, **33**, 301
- Ashwell, K. Direct and indirect effects on the lateral geniculate nucleus neurons of prenatal exposure to methylazoxymethanol acetate, **35**, 199
- Assouline, J.G., Bosch, P., Lim, R., Kim, I., Jensen, R. and Pantazis, N.J. Rat astrocytes and Schwann cells in culture synthesize nerve growth factor-like neurite-promoting factors, **31**, 103
- Austin, K., see Bronzino, J., **35**, 257
- Austin-Lafrance, R., see Bronzino, J., **35**, 257
- Azmitia, E.C., see Whitaker-Azmitia, P.M., **33**, 285

B

- Baker, B., see Beazley, L., **33**, 169
- Baker, S.P., see Gonzales, R.A., **37**, 59
- Bannigan, J.G. Autoradiographic analysis of effects of 5-bromodeoxyuridine on neurogenesis in the chick embryo spinal cord, **36**, 161
- Barks, J., see Silverstein, F.S., **34**, 33
- Barnstable, C.J., see Akagawa, K., **31**, 124
- Baron-Van Evercooren, A., Leprince, P., Rogister, B., Lefebvre, P., Delree, P., Selak, I. and Moonen, G. Plasminogen activators in developing peripheral nervous system, cellular origin and mitogenic effect, **36**, 101
- Barr, G.A., see Giordano, J., **32**, 247
- Barry, M.A.J. and O'Donovan, M.J. The effects of excitatory amino acids and their antagonists on the generation of motor activity in the isolated chick spinal cord, **36**, 271
- Bartolome, J.V., see Lau, C., **36**, 277
- Bartolome, M.B., see Lau, C., **36**, 277
- Baumann, N., see Mikoshiba, K., **35**, 111
- Beard, M. and Mackay-Sim, A. Loss of sense of smell in adult, hypothyroid mice, **36**, 181
- Beard, M., see Mackay-Sim, A., **36**, 190
- Beazley, L., Perry, V., Baker, B. and Darby, J. An investigation into the role of ganglion cells in the regulation of division and death of other retinal cells, **33**, 169
- Becú-Villalobos, D., see Lacau de Mengido, I., **35**, 91
- Beinfeld, M.C., see Johnson, F.E., **32**, 139
- Bellinger, D.L. and Anderson, W.J. Postnatal development of cell columns and their associated dendritic bundles in the lumbosacral spinal cord of the rat. I. The ventrolateral cell column, **35**, 55
- Bellinger, D.L. and Anderson, W.J. Postnatal development of cell columns and their associated dendritic bundles in the lumbosacral spinal cord of the rat. II. The ventromedial cell column, **35**, 69
- Bellport, V., see Sternberg, H., **34**, 316
- Benjelloun-Touimi, S., see Bitner, C., **37**, 167
- Bennett, M.R., see Armson, P., **32**, 207
- Bennett, M.R., see Malik, R., **34**, 173
- Bennett, M.R., see Nichol, K., **32**, 85
- Benoit, P., Mariani, J., Delhay-Bouchaud, N. and Chappuis, G. Evidence for a multiple innervation of cerebellar Purkinje cells by climbing fibers in adult ferrets infected at birth by a mink enteritis virus, **34**, 51
- Benowitz, L.I., see Moya, K.L., **31**, 183
- Bernd, P. Neuron-like cells in long-term neural crest cultures are not targets of nerve growth factor, **33**, 31
- Bernstein, M.F., see Roberts, M.H., **32**, 59
- Bero, L.A., Lurie, S. and Kuhn, C. Early ontogeny of κ -opioid receptor regulation of prolactin secretion in the rat, **37**, 189
- Berwald-Netter, Y., see Martin-Moutot, N., **32**, 43
- Biggio, G., see Giorgi, O., **35**, 283
- Binet, S., see Cohen, E., **36**, 171
- Bitner, C., Benjelloun-Touimi, S. and Dupouey, P. Palisading pattern of subpial astroglial processes in the adult rodent brain: relationship between the glial palisading pattern and the axonal and astroglial organization, **37**, 167
- Black, J.A., see Davis, P.K., **31**, 291
- Bladier, D., see Joubert, R., **36**, 146
- Blair, J.R. and Turner, J.E. Optimum conditions for successful transplantation of immature rat retina to the lesioned adult retina, **36**, 257
- Blakemore, L., see Allen, E., **32**, 53
- Blatchley, B., Cooper, W. and Coleman, J. Development of auditory brainstem response to tone pip stimuli in the rat, **32**, 75
- Bloch, S., see Tholey, G., **31**, 73
- Blue, M.E. and Molliver, M.E. 6-Hydroxydopamine induces serotonergic axon sprouting in cerebral cortex of newborn rat,

- 32, 255
 Bodega, G., see Suarez, I., 37, 89
 Bohn, M.C., Dreyfus, C.F.,
 Friedman, W.J. and Markey, K.A.
 Glucocorticoid effects on
 phenylethanolamine
N-methyltransferase (PNMT) in
 explants of embryonic rat medulla
 oblongata, 37, 257
 Bolden, C., see Gonzales, R.A., 37, 59
 Bortolotto, Z.A., see
 Cavalheiro, E.A., 37, 43
 Bosch, P., see Assouline, J.G., 31, 103
 Boss, B.D., Gozes, I. and Cowan, W.
 The survival of dentate gyrus
 neurons in dissociated culture,
 36, 199
 Bouvier, R., see Charnay, Y., 36, 63
 Bovolenta, P., Liem, R.K.H. and
 Mason, C.A.
 Glial filament protein expression in
 astroglia in the mouse visual
 pathway, 33, 113
 Bowe, C., Kocsis, J., Waxman, S. and
 Hildebrand, C.
 Physiological properties of
 regenerated rat sciatic nerve
 following lesions at different
 postnatal ages, 34, 123
 Bowe, C., see Hildebrand, C., 32, 147
 Bowman, P.D., see Arthur, F.E.,
 36, 155
 Boyd, S.R., see Johnston, J.G.,
 33, 310
 Bradley, P. and Galal, K.
 The effects of protein synthesis
 inhibition on structural changes
 associated with learning in the chick,
 37, 267
 Breedlove, S., see Rand, M.N.,
 33, 150
 Bregman, B.S.
 Development of serotonin
 immunoreactivity in the rat spinal
 cord and its plasticity after neonatal
 spinal cord lesions, 34, 245
 Bregman, B.S.
 Spinal cord transplants permit the
 growth of serotonergic axons across
 the site of neonatal spinal cord
 transection, 34, 265
 Bresson, J.-L., Clavequin, M.-C.,
 Fellmann, D. and Bugnon, C.
 Human corticoliberin hypothalamic
 neuroglandular system: comparative
 immunocytochemical study with
 anti-rat and anti-ovine
 corticotropin-releasing factor sera in
 the early stages of development,
 32, 241
 Bronzino, J., Siok, C.J., Austin, K.,
 Austin-Lafrance, R. and
 Morgane, P.
 Spectral analysis of the
 electroencephalogram in the
 developing rat, 35, 257
 Bruce, G., see Armstrong, D.M.,
 36, 249
 Brugge, J.F., see Reale, R.A., 34, 281
 Brunjes, P.C., see Cullinan, W.E.,
 35, 35
 Buchwald, N., see Fisher, R., 33, 215

- Bucknall, R., see Jones, H., 33, 23
 Bugnon, C., see Bresson, J.-L., 32, 241
 Buijs, R., see Kalsbeek, A., 32, 123
 Burgoyne, R., see
 Cambray-Deakin, M., 37, 197
 Burgoyne, R.D., see
 Cambray-Deakin, M., 34, 1
 Busciglio, J., see Ferreira, A., 34, 9
 Butcher, L.L., see Gould, E., 34, 303
 Byrd, J.C. and Alho, H.
 Differentiation of PC12
 pheochromocytoma cells by sodium
 butyrate, 31, 151

C

- Cáceres, A., see Ferreira, A., 34, 9
 Calderazzo-Filho, L.S., see
 Cavalheiro, E.A., 37, 43
 Calderini, G., see Giorgi, O., 35, 283
 Calle, F., see Iniguez, C., 35, 27
 Cambray-Deakin, M., Morgan, A. and
 Burgoyne, R.
 Sequential appearance of
 cytoskeletal components during the
 early stages of neurite outgrowth
 from cerebellar granule cells in
 vitro, 37, 197
 Cambray-Deakin, M., Norman, K.-M.
 and Burgoyne, R.D.
 Differentiation of the cerebellar
 granule cell: expression of a synaptic
 vesicle protein and the
 microtubule-associated protein
 MAP1A, 34, 1
 Campenot, R.B.
 Local control of neurite sprouting in
 cultured sympathetic neurons by
 nerve growth factor, 37, 293
 Carder, R.K., Snyder-Keller, A.M.
 and Lund, R.D.
 Amphetamine- and stress-induced
 turning after nigral transplants in
 neonatally dopamine-depleted rats,
 33, 315
 Carey, D.J. and Todd, M.S.
 Schwann cell myelination in a
 chemically defined medium:
 demonstration of a requirement for
 additives that promote Schwann cell
 extracellular matrix formation,
 32, 95
 Carlini, W.G., see Davis, P.K., 31, 291
 Carlson, S., Pertovaara, A. and
 Tanila, H.
 Late effects of early binocular visual
 deprivation on the function of
 Brodmann's area 7 of monkeys
 (*Macaca arctoides*), 33, 101
 Caron, M., see Joubert, R., 36, 146
 Carreres, J., see Iniguez, C., 35, 27
 Carri, N. and Ebendal, T.
 Target-field specificity in the
 induction of retinal neurite
 outgrowth, 31, 83
 Casagrande, V., see Condo, G.,
 35, 148
 Casagrande, V., see Lachica, E.,
 34, 298
 Casanova, M., see Lowenstein, P.,
 34, 291
 Cau, P., see Martin-Moutot, N., 32, 43
 Cavalheiro, E.A., Silva, D.F.,
 Turski, W.A.,
 Calderazzo-Filho, L.S.,
 Bortolotto, Z.A. and Turski, L.
 The susceptibility of rats to
 pilocarpine-induced seizures is
 age-dependent, 37, 43
 Chalupa, L., see Hendry, S.H.C.,
 37, 313
 Chan, J.C., see Reale, R.A., 34, 281
 Chanconie, M., see
 García-Arrarás, J.E., 33, 255
 Changeux, J.-P., see Taguchi, T.,
 37, 125
 Chantler, P.D., see Cunningham, T.J.,
 37, 133
 Chappuis, G., see Benoit, P., 34, 51
 Charnay, Y., Chayvialle, J.-A.,
 Pradayrol, L., Bouvier, R.,
 Paulin, C. and Dubois, P.
 Ontogeny of somatostatin-like
 immunoreactivity in the human fetus
 and infant spinal cord, 36, 63
 Chayvialle, J.-A., see Charnay, Y.,
 36, 63
 Chiaia, N.L., Hess, P.R. and
 Rhoades, R.W.
 Preventing regeneration of
 infraorbital axons does not alter the
 ganglionic or transganglionic
 consequences of neonatal
 transection of this trigeminal
 branch, 36, 75
 Chiaia, N.L., see Rhoades, R.W.,
 32, 217
 Clavequin, M.-C., see Bresson, J.-L.,
 32, 241
 Cocchia, D., see Lauriola, L., 37, 251
 Cohen, E., Binet, S. and Meininger, V.
 In situ appearance of the cold-stable
 microtubules in the growing axons
 of the tectal plate of mouse
 investigated immunocytochemically
 after polyethyleneglycol (PEG)
 embedding, 36, 171
 Coleman, J., see Blatchley, B., 32, 75
 Coli, A., see Lauriola, L., 37, 251
 Condo, G., Marvin, S. and
 Casagrande, V.
 Postnatal development of
 geniculocortical projections in the
 tree shrew, 35, 148
 Condo, G., see Lachica, E., 34, 298
 Condo, G.J., see Murakami, D.M.,
 35, 225
 Cooper, N.G.F., see O'Brien, T.F.,
 32, 309
 Cooper, N.G.F., see Steindler, D.A.,
 36, 27
 Cooper, W., see Blatchley, B., 32, 75
 Corner, M., see Van Huizen, F., 31, 1
 Coscia, C.J., see Johnson, F.E.,
 32, 139
 Coscia, C.J., see Oetting, G.M.,
 31, 223

- Couraud, F., see Martin-Moutot, N., **32**, 43
- Cowan, W., see Boss, B.D., **36**, 199
- Coyle, J., see Lowenstein, P., **34**, 291
- Crabtree, J.B., see Lim, R., **33**, 93
- Crabtree, J.W., see McCall, M.A., **34**, 223
- Crabtree, J.W., see McCall, M.A., **34**, 235
- Crepel, F., see Dupont, J.-L., **34**, 59
- Crews, F.T., see Gonzales, R.A., **37**, 59
- Crossland, W.
Neurogenetic gradients in the hamster visual pathway, **36**, 314
- Cullheim, S., see Arvidsson, U., **37**, 303
- Cullinan, W.E. and Brunjes, P.C.
Unilateral odor deprivation: effects on the development of staining for olfactory bulb succinate dehydrogenase, **35**, 35
- Cunningham, T.J., Haun, F. and Chantler, P.D.
Diffusible proteins prolong survival of dorsal lateral geniculate neurons following occipital cortex lesions in newborn rats, **37**, 133
- Cynader, M., see Shaw, C., **37**, 67
- Cynader, M.S., see Grasse, K.L., **31**, 229
- Evercooren, A., **36**, 101
- De Montis, G., see Giorgi, O., **35**, 283
- Deschênes, M., see Domich, L., **31**, 140
- Desiraju, T., see Rajanna, B., **37**, 97
- Devon, R.M.
Comparison of oligodendrocytes grown in neocortex and spinal cord aggregate cultures, **32**, 289
- Dom, R.M., see Sharkey, M.A., **31**, 119
- Domich, L., Oakson, G., Deschênes, M. and Steriade, M.
Thalamic and cortical spindles during early ontogenesis in kittens, **31**, 140
- Dreher, B., see Robinson, S., **35**, 161
- Dreyfus, C.F., see Bohn, M.C., **37**, 257
- Dubois, P., see Charnay, Y., **36**, 63
- Dupont, J.-L., Gardette, R. and Crepel, F.
Postnatal development of the chemosensitivity of rat cerebellar Purkinje cells to excitatory amino acids. An in vitro study, **34**, 59
- Dupouey, P., see Bitner, C., **37**, 167
- Dütting, D., see Thanos, S., **32**, 161
- Facal-Valverde, M., see Valverde, F., **32**, 283
- Fauquet, M., see García-Arrarás, J.E., **33**, 255
- Feder, H.H., see Johnson, A.E., **32**, 67
- Fellmann, D., see Bresson, J.-L., **32**, 241
- Fellows, R., see Ahmed, Z., **37**, 77
- Fernandez, B., see Suarez, I., **37**, 89
- Fernandez-Tomé, P. and Segal, M.
Ontogenesis of muscarinic receptors in cultured rat hippocampal cells, **35**, 158
- Ferreira, A., Busciglio, J. and Cáceres, A.
An immunocytochemical analysis of the ontogeny of the microtubule-associated proteins MAP-2 and Tau in the nervous system of the rat, **34**, 9
- Ferriero, D.M. and Sagar, S.M.
Development of somatostatin immunoreactive neurons in rat retina, **34**, 207
- Fish, S.E., see Rhoades, R.W., **32**, 217
- Fishell, G., see Takada, M., **35**, 275
- Fisher, J.E., Pasik, T. and Pasik, P.
Early postnatal development of monkey subthalamic nucleus: a light and electron microscopic study, **36**, 39
- Fisher, R., Levine, M., Adinolfi, A., Hull, C. and Buchwald, N.
The morphogenesis of glutamic acid decarboxylase in the neostriatum of the cat: neuronal and ultrastructural localization, **33**, 215
- Fogolin, R.P., see Robertson, R.T., **33**, 185
- Foucaud, B., see Espinosa de los Monteros, A., **35**, 123
- Fried, K., see Erdélyi, G., **33**, 39
- Friedman, W.J., see Bohn, M.C., **37**, 257
- Frostholm, A. and Rotter, A.
The ontogeny of [³H]muscimol binding sites in the C57BL/6J mouse cerebellum, **37**, 157
- Fujishiro, M., see Mikoshiba, K., **35**, 111
- Fukuda, M., Yeh, H.H. and Puro, D.G.
Avian retinal cells express enkephalin-like immunoreactivity in culture, **31**, 147
- D
- Daddona, P., see Senba, E., **31**, 59
- Darby, J., see Beazley, L., **33**, 169
- Davis, G.E., Engvall, E., Varon, S. and Manthorpe, M.
Human amnion membrane as a substratum for cultured peripheral and central nervous system neurons, **33**, 1
- Davis, G.E., see Rudge, J.S., **32**, 103
- Davis, P.K., Carlini, W.G., Ransom, B.R., Black, J.A. and Waxman, S.G.
Carbonic anhydrase activity develops postnatally in the rat optic nerve, **31**, 291
- Deane, R., see Jones, H., **33**, 23
- Dechesne, C.J., see Raymond, J., **31**, 299
- Dederen, P.J.W.C., see Joosten, E.A.J., **36**, 121
- Del Abril, A., Segovia, S. and Guillamón, A.
The bed nucleus of the stria terminalis in the rat: regional sex differences controlled by gonadal steroids early after birth, **32**, 295
- Delhaye-Bouchaud, N., see Benoit, P., **34**, 51
- Delree, P., see Baron-Van
- E
- Ebendal, T., see Carri, N., **31**, 83
- Eccleston, P.A., Mirsky, R., Jessen, K.R., Sommer, I. and Schachner, M.
Postnatal development of rat peripheral nerves: an immunohistochemical study of membrane lipids common to non-myelin forming Schwann cells, myelin forming Schwann cells and oligodendrocytes, **35**, 249
- Ehrlich, D., Sattayasai, J., Gurusinge, C. and Zappia, J.
The avian pecten provides a potent substrate for growth and development of dissociated embryonic neural implants, **33**, 139
- Engvall, E., see Davis, G.E., **33**, 1
- Epstein, C.J., see Orozco, C.B., **32**, 111
- Erdélyi, G., Fried, K. and Hildebrand, C.
Nerve growth to tooth buds after homotopic or heterotopic autotransplantation, **33**, 39
- Escobar del Rey, F., see Ipiña, S.L., **37**, 219
- Espinosa de los Monteros, A. and Foucaud, B.
Effect of iron and transferrin on pure oligodendrocytes in culture; characterization of a high-affinity

G

- Gage, F.H., see Armstrong, D.M., **36**, 249
- Galal, K., see Bradley, P., **37**, 267
- Gallager, D., see Smith, D., **35**, 191
- Gallatz, K., see Hajós, F., **36**, 131
- Ganz, N.I., see Gonzales, R.A., **37**, 59
- Garcia-Segura, L., see Suarez, I., **37**, 89
- García-Arrarás, J.E., Chanconie, M., Ziller, C. and Fauquet, M.
In vivo and in vitro expression of vasoactive intestinal polypeptide-like immunoreactivity by neural crest derivatives, **33**, 255
- Gardette, R., see Dupont, J.-L., **34**, 59
- Garris, D.R.
Obese (*ob/ob*) and diabetes (*db/db*) mutations: two factors modulating brain and peripheral tissue accumulation of estradiol in C57BL/KsJ mice, **35**, 153
- Garthwaite, G., Yamini Jr., B. and Garthwaite, J.
Selective loss of Purkinje and granule cell responsiveness to *N*-methyl-D-aspartate in rat cerebellum during development, **36**, 288
- Garthwaite, J., see Garthwaite, G., **36**, 288
- Gasc, J.-M., see Guennoun, R., **37**, 1
- Geffard, A.T.M., see Pessac, B., **31**, 156
- Gershon, M., see Liu, K., **32**, 31
- Gesteland, R.C., see Lidow, M.S., **31**, 243
- Ghandour, M., see Tholey, G., **31**, 73
- Gianoulakis, C., see Iny, L.J., **31**, 177
- Giordano, J. and Barr, G.A.
Morphine- and ketocyclazocine-induced analgesia in the developing rat: differences due to type of noxious stimulus and body topography, **32**, 247
- Giorgi, O., De Montis, G., Porceddu, M., Mele, S., Calderini, G., Toffano, G. and Biggio, G.
Developmental and age-related changes in D₁-dopamine receptors and dopamine content in the rat striatum, **35**, 283
- Goldberger, M.E., see Leonard, C.T., **32**, 1
- Goldberger, M.E., see Leonard, C.T., **32**, 15
- Goldowitz, D.
Cell partitioning and mixing in the formation of the CNS: analysis of the cortical somatosensory barrels in chimeric mice, **35**, 1
- Goldstein, M., see Henschen, A., **36**, 237
- Gonzales, R.A., Greger Jr., P., Baker, S.P., Ganz, N.I., Bolden, C., Raizada, M.K. and Crews, F.T.
Phorbol esters inhibit agonist-stimulated phosphoinositide hydrolysis in neuronal primary cultures, **37**, 59
- Gordon, B., see Allen, E., **32**, 53
- Gorski, R.A., see Arendash, G.W., **34**, 69
- Gould, E. and Butcher, L.L.
Transient expression of choline acetyltransferase-like immunoreactivity in Purkinje cells of the developing rat cerebellum, **34**, 303
- Govind, C. and Potter, D.
Development of bilateral asymmetry in sensory innervation to lobster claws, **35**, 131
- Gozes, I., see Boss, B.D., **36**, 199
- Grasse, K.L. and Cynader, M.S.
The accessory optic system of the monocularly deprived cat, **31**, 229
- Greger Jr., P., see Gonzales, R.A., **37**, 59
- Greig, D.I., see Sinclair, C.M., **35**, 43
- Greuel, J., Luhmann, H. and Singer, W.
Evidence for a threshold in experience-dependent long-term changes of kitten visual cortex, **34**, 141
- Gribnau, A.A.M., see Joosten, E.A.J., **36**, 121
- Grinspan, J., Lieb, M., Stern, J., Rupnick, M., Williams, S. and Pleasure, D.
Rat brain microvessel extracellular matrix modulates the phenotype of cultured rat type 1 astroglia, **33**, 291
- Guennoun, R., Reyss-Brion, M. and Gasc, J.-M.
Progesterone receptors in hypothalamus and pituitary during the embryonic development of the chick: regulation by sex steroid hormones, **37**, 1
- Guillamón, A., see Del Abril, A., **32**, 295
- Gurusinghe, C., see Ehrlich, D., **33**, 139
- Gustafson, E.L. and Moore, R.Y.
Noradrenaline neuron plasticity in developing rat brain: effects of neonatal 6-hydroxydopamine demonstrated by dopamine- β -hydroxylase immunocytochemistry, **37**, 143

H

- of radial glia in the developing rat olfactory bulb with antibodies to glial fibrillary acidic protein, **36**, 131
- Hallas, B.H., see Jacquin, M.F., **32**, 301
- Hamilton, K.H., see Rosselli-Austin, L., **36**, 304
- Harrison, P.H.
Innervation and behaviour of ectopic limbs in *Xenopus*, **36**, 89
- Harvey, A., see Tan, M.M.L., **36**, 293
- Hattori, T., see Takada, M., **35**, 275
- Haun, F., see Cunningham, T.J., **37**, 133
- Hayakawa, E., see Stewart, P., **32**, 271
- Hayashi, M. and Patel, A.J.
An interaction between thyroid hormone and nerve growth factor in the regulation of choline acetyltransferase activity in neuronal cultures, derived from the septal-diagonal band region of the embryonic rat brain, **36**, 109
- Hayashi, M.
Ontogeny of glutamic acid decarboxylase, tyrosine hydroxylase, choline acetyltransferase, somatostatin and substance P in monkey cerebellum, **32**, 181
- Hayashi, Y., Taniura, H. and Miki, N.
Interaction of monoclonal antibodies with a neurite outgrowth factor from chicken gizzard extract, **35**, 11
- Headon, M., see Sloper, J., **31**, 259
- Headon, M., see Sloper, J., **31**, 267
- Heinemann, U., see Hablitz, J.J., **36**, 299
- Heller, A., see Kontur, P., **31**, 7
- Henderson, C.E., see Taguchi, T., **37**, 125
- Hendrickson, A., see Westenbroek, R., **34**, 191
- Hendry, I.A., see Vidovic, M., **32**, 133
- Hendry, S.H.C., Jones, E., Killackey, H. and Chalupa, L.
Choline acetyltransferase-immunoreactive neurons in fetal monkey cerebral cortex, **37**, 313
- Henneberry, R., see Novelli, A., **34**, 307
- Henschen, A., Goldstein, M. and Olson, L.
The innervation of intraocular spinal cord transplants by cogafts of locus ceruleus and substantia nigra neurons, **36**, 237
- Herschkowitz, N., see Reynolds, R., **36**, 1
- Herschkowitz, N., see Reynolds, R., **36**, 13
- Hersh, L.B., see Armstrong, D.M., **36**, 249
- Hess, P.R., see Chiaia, N.L., **36**, 75
- Hicklin, D.J., see Lim, R., **33**, 49
- Hicklin, D.J., see Lim, R., **33**, 93
- Hildebrand, C., Mustafa, G., Bowe, C. and Kocsis, J.
Nodal spacing along regenerated axons following a crush lesion of the developing rat sciatic nerve, **32**, 147
- Hildebrand, C., see Bowe, C., **34**, 123

Hildebrand, C., see Erdélyi, G., **33**, 39
 Hill, C.E., see Vidovic, M., **32**, 133
 Hill, M.A.

The growth of motoneurons and their neurites in relation to Schwann cells harvested from sciatic nerve, **33**, 243

Hoeben, R.C., see Warringa, R.A.J., **34**, 79

Hoffmann, P., see Kontur, P., **31**, 7

Hofman, M., see Kalsbeek, A., **32**, 123

Holmes, G.L. and Thompson, J.L.
 Rapid kindling in the prepubescent rat, **36**, 281

Horsburgh, G., see Robinson, S., **35**, 161

Hsieh, L.-S., see Kligman, D., **33**, 296
 Hsiung, S., see Liu, K., **32**, 31

Huchet, M., see Taguchi, T., **37**, 125

Hudd, C., see Johnson, F.E., **32**, 139

Hudson, C., see Johnston, M.V., **34**, 41

Hull, C., see Fisher, R., **33**, 215

Hurlbut, D.E., see Kornblum, H.I., **37**, 21

Hyndman, A.G., see Zeevalk, G.D., **37**, 231

Iacovitti, L., Teitelman, G., Joh, T. and Reis, D.
 Chick eye extract promotes expression of a cholinergic enzyme in sympathetic ganglia in culture, **33**, 59

Ikedo, H., Robbins, J. and Wakakuwa, K.
 Evidence for dopaminergic innervation on kitten retinal ganglion cells, **35**, 83

Inagaki, S., see Kiyama, H., **31**, 303

Igniguez, C., Calle, F., Marshall, E. and Carreres, J.
 Morphological effects of chronic haloperidol administration on the postnatal development of the striatum, **35**, 27

Inoue, Y., see Mikoshiba, K., **35**, 111

Iny, L.J., Gianoulakis, C., Palmour, R.M. and Meaney, M.J.

The β -endorphin response to stress during postnatal development in the rat, **31**, 177

Ipiña, S.L., Ruiz-Marcos, A., Escobar del Rey, F. and Morreale de Escobar, G.

Pyramidal cortical cell morphology studied by multivariate analysis: effects of neonatal thyroidectomy, ageing and thyroxine-substitution therapy, **37**, 219

Ishii, S., see Volpe, J.J., **33**, 277

Ito, J., see Kato, T., **33**, 153

J

Jacquin, M.F. and Rhoades, R.W.
 Development and plasticity in hamster trigeminal primary afferent projections, **31**, 161

Jacquin, M.F., Renahan, W.E., Klein, B.G. and Hallas, B.H.
 Renewed growth of identified brainstem axons into fetal cortical transplants in adult rat, **32**, 301

Jeffrey, P.L., see Sinclair, C.M., **35**, 43

Jenkins, W.M., see McKinley, P.A., **31**, 136

Jensen, R., see Assouline, J.G., **31**, 103

Jessen, K.R., see Eccleston, P.A., **35**, 249

Jhaveri, S., see Moya, K.L., **31**, 183

Joh, T., see Iacovitti, L., **33**, 59

Johnson, A.E., Renner, K.J., Allen, D., Luine, V.N., Nock, B. and Feder, H.H.

Noradrenergic regulation of α_1 -receptors during the postnatal development of the guinea pig, **32**, 67

Johnson, F.E., Hudd, C., LaRegina, M.C., Beinfeld, M.C., Tolbert, D.L., Spain, J.W., Szucs, M. and Coscia, C.J.
 Exogenous cholecystokinin (CCK) reduces neonatal rat brain opioid receptor density and CCK levels, **32**, 139

Johnston, J.G., Boyd, S.R. and Van der Kooy, D.
 Compartmentalization of the embryonic striatum after intraocular transplantation, **33**, 310

Johnston, M.V. and Hudson, C.
 Effects of postnatal hypoxia-ischemia on cholinergic neurons in the developing rat forebrain: choline acetyltransferase immunocytochemistry, **34**, 41

Johnston, M.V., see Silverstein, F.S., **34**, 33

Jones, E., see Hendry, S.H.C., **37**, 313

Jones, E., see Schreyer, D., **35**, 291

Jones, H., Deane, R. and Bucknall, R.
 Developmental changes in cerebrospinal fluid pressure and resistance to absorption in rats, **33**, 23

Joosten, E.A.J., Gribnau, A.A.M. and Dederen, P.J.W.C.

An anterograde tracer study of the developing corticospinal tract in the rat: three components, **36**, 121

Jordan, F., Rieke, G. and Thomas, W.
 Presence and development of ependymal cells in primary tissue cultures derived from embryonic rat cerebral cortex, **35**, 97

Joubert, R., Caron, M. and Bladier, D.
 Brain lectin-mediated agglutination of dissociated cells from embryonic and postnatal mouse brain, **36**, 146

K

Kalsbeek, A., Buijs, R., Hofman, M., Matthijssen, M.A.H., Pool, C. and Uytings, H.B.M.

Effects of neonatal thermal lesioning of the mesocortical dopaminergic projection on the development of the rat prefrontal cortex, **32**, 123

Kano, M., Wakuta, K. and Satoh, R.
 Calcium channel components of the rat prefrontal cortex, **32**, 123

Kato, S., see Negishi, K., **33**, 67

Kato, T., Ito, J. and Tanaka, R.
 Functional dissociation of dual activities of glia maturation factor: inhibition of glial proliferation and preservation of differentiation by glial growth inhibitory factor, **33**, 153

Killackey, H., see Hendry, S.H.C., **37**, 313

Kim, I., see Assouline, J.G., **31**, 103

Kimura, F. and Nakamura, S.
 Postnatal development of α -adrenoceptor-mediated autoinhibition in the locus coeruleus, **35**, 21

Kito, S., see Kiyama, H., **31**, 303

Kiyama, H., Inagaki, S., Kito, S. and Tohyama, M.
 Ontogeny of [3 H]neurotensin binding sites in the rat cerebral cortex: autoradiographic study, **31**, 303

Kleene, S.J., see Lidow, M.S., **31**, 243

Klein, B.G., see Jacquin, M.F., **32**, 301

Kligman, D. and Hsieh, L.-S.
 Neurite extension factor induces rapid morphological differentiation of mouse neuroblastoma cells in defined medium, **33**, 296

Knapp, P.E. and Skoff, R.P.
 A defect in the cell cycle of neuroglia in the myelin deficient jimpy mouse, **35**, 301

Kocsis, J., see Bowe, C., **34**, 123

Kocsis, J., see Hildebrand, C., **32**, 147

Kontro, P. and Oja, S.
 Taurine and GABA release from mouse cerebral cortex slices: potassium stimulation releases more taurine than GABA from developing brain, **37**, 277

Kontur, P., Hoffmann, P. and Heller, A.

Neurotoxic effects of methamphetamine assessed in three-dimensional reaggregate tissue cultures, **31**, 7

Koper, J.W., see Warringa, R.A.J., **34**, 79

Kornblum, H.I., Hurlbut, D.E. and Leslie, F.M.

Postnatal development of multiple opioid receptors in rat brain, **37**, 21

Kornblum, H.I., Loughlin, S.E. and

- Leslie, F.M.
Effects of morphine on DNA synthesis in neonatal rat brain, **31**, 45
- Kornguth, S.E., see McCall, M.A., **34**, 223
- Kornguth, S.E., see McCall, M.A., **34**, 235
- Kosterlitz, H.W., see Petrillo, P., **31**, 53
- Kotas, A.M. and Prince, A.K.
High-affinity uptake of choline, a marker for cholinergic nerve terminals, is not specific in developing rat brain, **35**, 175
- Kriegstein, A., Suppes, T. and Prince, D.
Cellular and synaptic physiology and epileptogenesis of developing rat neocortical neurons in vitro, **34**, 161
- Krishnan, S., see Lowrie, M., **31**, 91
- Kuhn, C., see Bero, L.A., **37**, 189

L

- Lacau de Mengido, I., Becú-Villalobos, D. and Libertun, C.
Sexual differences in the dopaminergic control of luteinizing hormone secretion in the developing rat, **35**, 91
- Lachapelle, F., see Mikoshiba, K., **35**, 111
- Lachica, E., Condo, G. and Casagrande, V.
Development of cytochrome oxidase staining in the retina and lateral geniculate nucleus: a possible correlate of ON- and OFF-center channel maturation, **34**, 298
- Lagerbäck, P.-Å., see Arvidsson, U., **37**, 303
- Laing, D., see Panhuber, H., **31**, 307
- Laing, D., see Panhuber, H., **34**, 133
- LaRegina, M.C., see Johnson, F.E., **32**, 139
- Lau, C., Bartolome, J.V., Bartolome, M.B. and Slotkin, T.A.
Central and sympatho-adrenal responses to insulin in adult and neonatal rats, **36**, 277
- Lauder, J.M., see Whitaker-Azmitia, P.M., **33**, 285
- Lauriola, L., Coli, A., Cocchia, D., Tallini, G. and Michetti, F.
Comparative study by S-100 and GFAP immunohistochemistry of glial cell populations in the early stages of human spinal cord development, **37**, 251
- LeBoutillier, J.C., see Markus, E.J., **35**, 239
- Ledig, M., see Tholey, G., **31**, 73
- Le Douarin, N.M., see Xue, Z.-G., **34**, 99
- Lefebvre, P., see Baron-Van Evercooren, A., **36**, 101
- Leon, M., see Sullivan, R.M., **35**, 307
- Leon, M., see Wilson, D., **33**, 134
- Leon, M., see Woo, C.C., **36**, 309
- Leonard, C.T. and Goldberger, M.E.
Consequences of damage to the sensorimotor cortex in neonatal and adult cats. I. Sparing and recovery of function, **32**, 1
- Leonard, C.T. and Goldberger, M.E.
Consequences of damage to the sensorimotor cortex in neonatal and adult cats. II. Maintenance of exuberant projections, **32**, 15
- LePrince, P., see Baron-Van Evercooren, A., **36**, 101
- Leslie, F.M., see Kornblum, H.I., **31**, 45
- Leslie, F.M., see Kornblum, H.I., **37**, 21
- Levine, M., see Fisher, R., **33**, 215
- Li, Z., see Takada, M., **35**, 275
- Libertun, C., see Lacau de Mengido, I., **35**, 91
- Lidow, M.S., Gesteland, R.C., Shipley, M.T. and Kleene, S.J.
Comparative study of immature and mature olfactory receptor cells in adult frogs, **31**, 243
- Lieb, M., see Grinspan, J., **33**, 291
- Liem, R.K.H., see Bovolenta, P., **33**, 113
- Lim, R., Hicklin, D.J., Miller, J.F., Williams, T.H. and Crabtree, J.B.
Distribution of immunoreactive glia maturation factor-like molecule in organs and tissues, **33**, 93
- Lim, R., Hicklin, D.J., Ryken, T.C. and Miller, J.F.
Endogenous immunoreactive glia maturation factor-like molecule in astrocytes and glioma cells, **33**, 49
- Lim, R., see Assouline, J.G., **31**, 103
- Linser, P.J. and Perkins, M.
Gliogenesis in the embryonic avian optic tectum: neuronal-glial interactions influence astroglial phenotype maturation, **31**, 277
- Litteria, M.
Cerebellar Na⁺, K⁺-ATPase activity is increased during early postnatal development of the estrogenized female rat, **33**, 157
- Liu, K., Tamir, H., Hsiung, S., Adlersberg, M. and Gershon, M.
Prenatal development of serotonin binding protein in relation to other transmitter-related characteristics of central serotonergic neurons, **32**, 31
- Liu, L.-H.J., see O'Shea K., **37**, 11
- Lopes-Cardozo, M., see Warringa, R.A.J., **34**, 79
- Loughlin, S.E., see Kornblum, H.I., **31**, 45
- Lowenstein, P., Slesinger, P., Singer, H., Walker, L., Casanova, M., Price, D. and Coyle, J.
An autoradiographic study of the development of [3H]hemicholinium-3 binding sites in human and baboon basal ganglia: a marker for the sodium-dependent high affinity choline uptake system, **34**, 291
- Lowrie, M., Krishnan, S. and Vrbová, G.
Permanent changes in muscle and motoneurons induced by nerve injury during a critical period of development of the rat, **31**, 91
- Loy, R. and Sheldon, R.
Sexually dimorphic development of cholinergic enzymes in the rat septohippocampal system, **34**, 156
- Luhmann, H., see Greuel, J., **34**, 141
- Luine, V.N., see Johnson, A.E., **32**, 67
- Lund, R.D., see Carder, R.K., **33**, 315
- Lund, R.D., see Sefton, A.J., **33**, 145
- Lund, R.D., see Sharkey, M.A., **31**, 119
- Lurie, S., see Bero, L.A., **37**, 189

M

- Mackay-Sim, A. and Beard, M.
Hypothyroidism disrupts neural development in the olfactory epithelium of adult mice, **36**, 190
- Mackay-Sim, A., see Beard, M., **36**, 181
- Mackay-Sim, A., see Panhuber, H., **31**, 307
- Maier, V. and Scheich, H.
Acoustic imprinting in guinea fowl chicks: age dependence of 2-deoxyglucose uptake in relevant forebrain areas, **31**, 15
- Malik, R. and Bennett, M.R.
Loss of polyneuronal innervation and establishment of a topographical map in the gluteus muscle of *Bufo marinus* during generation of secondary muscle cells, **34**, 173
- Mandel, P., see Tholey, G., **31**, 73
- Manthorpe, M., see Davis, G.E., **33**, 1
- Manthorpe, M., see Rudge, J.S., **32**, 103
- Marangos, P.J., see Morgan, P.F., **35**, 269
- Mariani, J., see Benoit, P., **34**, 51
- Markey, K.A., see Bohn, M.C., **37**, 257
- Markus, E.J., Petit, T.L. and LeBoutillier, J.C.
Synaptic structural changes during development and aging, **35**, 239
- Marques Ventura, A. and Paes de Carvalho, R.
Development of adenosine-dependent cyclic AMP accumulation in the avian optic tectum, **35**, 141
- Marshall, E., see Iñiguez, C., **35**, 27
- Martin-Moutot, N., Cau, P.,

- Berwald-Netter, Y. and Couraud, F. Early appearance of cells bearing Na^+ channels in developing mouse brain. A quantitative analysis using light microscopic autoradiography, **32**, 43
- Marvin, S., see Condo, G., **35**, 148
- Mascarenhas, C., see Rajanna, B., **37**, 97
- Mason, C.A., see Bovolenta, P., **33**, 113
- Matthijssen, M.A.H., see Kalsbeek, A., **32**, 123
- Mattsson, M.E.K., see Adem, A., **33**, 235
- McCabe, N., see Murphy, S., **31**, 133
- McCall, M., see Robinson, S., **35**, 161
- McCall, M.A., Spear, P.D., Crabtree, J.W. and Kornguth, S.E. Effects of antibodies to large retinal ganglion cells on developing retinogeniculate pathways in the cat, **34**, 223
- McCall, M.A., Spear, P.D., Crabtree, J.W. and Kornguth, S.E. Effects of reduced numbers of lateral geniculate Y-cells on development of ocular dominance in cat striate cortex, **34**, 235
- McKinley, P.A., Jenkins, W.M., Smith, J.L. and Merzenich, M.M. Age-dependent capacity for somatosensory cortex reorganization in chronic spinal cats, **31**, 136
- Meaney, M.J., see Iny, L.J., **31**, 177
- Meininger, V., see Cohen, E., **36**, 171
- Mele, S., see Giorgi, O., **35**, 283
- Merzenich, M.M., see McKinley, P.A., **31**, 136
- Meyer, G., see Wahle, P., **36**, 53
- Meyer, R.L. Intratectal targeting by optic fibers in goldfish under impulse blockade, **37**, 115
- Meyer, R.L. Tests for relabelling the goldfish tectum by optic fibers, **31**, 312
- Michetti, F., see Lauriola, L., **37**, 251
- Miki, N., see Hayashi, Y., **35**, 11
- Mikoshiba, K., Okano, H., Inoue, Y., Fujishiro, M., Takamatsu, K., Lachapelle, F., Baumann, N. and Tsukada, Y. Immunohistochemical, biochemical and electron microscopic analysis of myelin formation in the central nervous system of myelin deficient (*mld*) mutant mice, **35**, 111
- Miller, J.F., see Lim, R., **33**, 49
- Miller, J.F., see Lim, R., **33**, 93
- Mirsky, R., see Eccleston, P.A., **35**, 249
- Molliver, M.E., see Blue, M.E., **32**, 255
- Moonen, G., see Baron-Van Evercooren, A., **36**, 101
- Mooney, R.D., see Rhoades, R.W., **32**, 217
- Moore, R.Y., see Gustafson, E.L., **37**, 143
- Moore, R.Y., see Roberts, M.H., **32**, 59
- Moore, R.Y., see Shibata, S., **34**, 311
- Morey, A.L., see Pettigrew, A.G., **33**, 267
- Morgan, A., see Cambray-Deakin, M., **37**, 197
- Morgan, P.F. and Marangos, P.J. Ontogenetic appearance of the adenosine receptor precedes *N*-protein coupling in rat forebrain, **35**, 269
- Morgane, P., see Bronzino, J., **35**, 257
- Morreale de Escobar, G., see Ipiña, S.L., **37**, 219
- Morrow, C., see Murphy, S., **31**, 133
- Moshé, S.L., see Sperber, E.F., **37**, 243
- Moshé, S.L., Sperber, E.F., Würpel, J.N.D. and Sharpless, N.S. Age-related changes in striatal dopamine activity following nigral muscimol infusions, **31**, 129
- Moya, K.L., Benowitz, L.I., Jhaveri, S. and Schneider, G.E. Enhanced visualization of axonally transported proteins in the immature CNS by suppression of systemic labeling, **31**, 183
- Murakami, D.M. and Wilson, P.D. The development of soma size changes in the C-laminae of the cat lateral geniculate nucleus following monocular deprivation, **35**, 215
- Murakami, D.M., Condo, G.J. and Wilson, P.D. The development of neurons in the cat perigeniculate nucleus and reticular nucleus of the thalamus, **35**, 225
- Murphy, S., McCabe, N., Morrow, C. and Pearce, B. Phorbol ester stimulates proliferation of astrocytes in primary culture, **31**, 133
- Mustafa, G., see Hildebrand, C., **32**, 147
- Nagy, J., see Senba, E., **31**, 59
- Nakamura, S., see Kimura, F., **35**, 21
- Nakamura, Y., see Negishi, K., **33**, 67
- Negishi, K., Teranishi, T., Kato, S. and Nakamura, Y. Paradoxical induction of dopaminergic cells following intravitreal injection of high doses of 6-hydroxydopamine in juvenile carp retina, **33**, 67
- Nehlig, A., see Pereira de Vasconcelos, A., **36**, 219
- Nehlig, A., see Pereira de Vasconcelos, A., **36**, 231
- Nichol, K. and Bennett, M.R. Motoneurone survival and neurite regeneration requirements: the role of dorsal root ganglion cells during development, **32**, 85
- Nock, B., see Johnson, A.E., **32**, 67
- Nordberg, A., see Adem, A., **33**, 235
- Norman, K.-M., see Cambray-Deakin, M., **34**, 1
- Novelli, A. and Henneberry, R. cGMP synthesis in cultured cerebellar neurons is stimulated by glutamate via a Ca^{2+} -mediated, differentiation-dependent mechanism, **34**, 307
- ## O
- Oakson, G., see Domich, L., **31**, 140
- O'Brien, T.F., Steindler, D.A. and Cooper, N.G.F. Abnormal glial and glycoconjugate dispositions in the somatosensory cortical barrel field of the early postnatal reeler mutant mouse, **32**, 309
- O'Donovan, M., see Williams, C., **34**, 215
- O'Donovan, M.J., see Barry, M.A.J., **36**, 271
- Oetting, G.M., Szűcs, M. and Coscia, C.J. Differential ontogeny of divalent cation effects on rat brain δ -, μ -, and κ -opioid receptor binding, **31**, 223
- Oja, S., see Kontro, P., **37**, 277
- Okano, H., see Mikoshiba, K., **35**, 111
- Olmos, G., see Suarez, I., **37**, 89
- Olson, L., see Henschen, A., **36**, 237
- Orozco, C.B., Smith, S.A., Epstein, C.J. and Rapoport, S.I. Electrophysiological properties of cultured dorsal root ganglion and spinal cord neurons of normal and trisomy 16 fetal mice, **32**, 111
- O'Shea, K. and Liu, L.-H.J. Basal lamina and extracellular matrix alterations in the caudal neural tube of the *delayed Splotch* embryo, **37**, 11
- ## P
- Paden, C.M. and Roselli, C.E. Modulation of aromatase activity by testosterone in transplants of fetal rat hypothalamus-preoptic area, **33**, 127
- Paes de Carvalho, R., see Marques Ventura, A., **35**, 141
- Påhlman, S., see Adem, A., **33**, 235

Palmour, R.M., see Iny, L.J., **31**, 177
 Panhuber, H. and Laing, D.

The size of mitral cells is altered when rats are exposed to an odor from their day of birth, **34**, 133

Panhuber, H., Mackay-Sim, A. and Laing, D.

Prolonged odor exposure causes severe cell shrinkage in the adult rat olfactory bulb, **31**, 307

Pantazis, N.J., see Assouline, J.G., **31**, 103

Pasik, P., see Fisher, J.E., **36**, 39

Pasik, T., see Fisher, J.E., **36**, 39

Patel, A.J., see Hayashi, M., **36**, 109

Paulin, C., see Charnay, Y., **36**, 63

Pearce, B., see Murphy, S., **31**, 133

Pereira de Vasconcelos, A. and

Nehlig, A.

Effects of early chronic phenobarbital treatment on the maturation of energy metabolism in the developing rat brain. I. Incorporation of glucose carbon into amino acids, **36**, 219

Pereira de Vasconcelos, A.,

Schroeder, H. and Nehlig, A.

Effects of early chronic phenobarbital treatment on the maturation of energy metabolism in the developing rat brain. II.

Incorporation of β -hydroxybutyrate into amino acids, **36**, 231

Perkins, M., see Linser, P.J., **31**, 277

Perkins, P. and Young, R.W.

Comparisons of histones in retinal and brain nuclei from newborn and adult mice, **33**, 161

Perry, V., see Beazley, L., **33**, 169

Perry, V.H., see Sefton, A.J., **33**, 145

Pertovaara, A., see Carlson, S.,

33, 101

Pessac, B., Geffard, A.T.M. and

Wu, J.

The presence of glutamic acid decarboxylase and γ -aminobutyric acid immunoreactivity in

photoreceptors of hatching quail retina, **31**, 156

Petit, T.L., see Markus, E.J., **35**, 239

Petrillo, P., Tavani, A., Verotta, D.,

Robson, L.E. and Kosterlitz, H.W.

Differential postnatal development of μ -, δ - and β -opioid binding sites in rat brain, **31**, 53

Pettigrew, A.G. and Morey, A.L.

Changes in the brainstem auditory evoked response of the rabbit during the first postnatal month, **33**, 267

Pleasure, D., see Grinspan, J., **33**, 291

Podell, M., see Yinon, U., **33**, 205

Pomerantz, S.M. and Sholl, S.A.

Analysis of sex and regional differences in androgen receptors in fetal rhesus monkey brain, **36**, 151

Pool, C., see Kalsbeek, A., **32**, 123

Porceddu, M., see Giorgi, O., **35**, 283

Potter, D., see Govind, C., **35**, 131

Powell, T.P.S., see Sloper, J., **31**, 259

Powell, T.P.S., see Sloper, J., **31**, 267

Pradayrol, L., see Charnay, Y., **36**, 63

Price, D., see Lowenstein, P., **34**, 291

Prince, A.K., see Kotas, A.M., **35**, 175

Prince, D., see Kriegstein, A., **34**, 161

Prusky, G., see Shaw, C., **37**, 67

Puel, J.-L. and Uziel, A.

Correlative development of cochlear action potential sensitivity, latency, and frequency selectivity, **37**, 179

Puro, D.G.

Quantification of synapse turnover in cell culture, **33**, 305

Puro, D.G., see Fukuda, M., **31**, 147

R

Raizada, M.K., see Gonzales, R.A., **37**, 59

Rajanna, B., Mascarenhas, C. and Desiraju, T.

Deviations in brain development due to caloric undernutrition and scope of their prevention by rehabilitation: alterations in the power spectra of the EEG of areas of the neocortex and limbic system, **37**, 97

Raju, T., see Armson, P., **32**, 207

Rand, M.N. and Breedlove, S.

Ontogeny of functional innervation of bulbocavernosus muscles in male and female rats, **33**, 150

Ransom, B.R., see Davis, P.K.,

31, 291

Rapoport, S.I., see Orozco, C.B.,

32, 111

Raymond, J. and Dechesne, C.J.

Appearance and development of neuron-specific enolase immunoreactivity in organotypic cultures of mouse embryo otocysts, **31**, 299

Reale, R.A., Brugge, J.F. and

Chan, J.C.

Maps of auditory cortex in cats reared after unilateral cochlear ablation in the neonatal period, **34**, 281

Reboulleau, C.P.

Multiple types of neurotransmitter binding sites in the rat neuroblastoma B 50 cell line. II.

Response of second messenger systems to physiological stimuli in proliferating and differentiated cells, **31**, 213

Reboulleau, C.P.

Multiple types of neurotransmitter binding sites in the rat neuroblastoma B 50 cell line. I. Characterization and binding affinity changes during various differentiation paradigms, **31**, 201

Reis, D., see Iacovitti, L., **33**, 59

Renehan, W.E., see Jacquin, M.F.,

32, 301

Renner, K.J., see Johnson, A.E.,

32, 67

Reynolds, R. and Herschkowitz, N. Oligodendroglial and astroglial

heterogeneity in mouse primary central nervous system culture as

demonstrated by differences in GABA and D-aspartate transport

and immunocytochemistry, **36**, 13

Reynolds, R. and Herschkowitz, N. Simultaneous immunofluorescence

and autoradiography: a useful technique for investigating

neurotransmitter uptake by neurons and glia in primary central nervous

system culture, **36**, 1

Reyss-Brion, M., see Guennoun, R.,

37, 1

Rhoades, R.W., Fish, S.E.,

Mooney, R.D. and Chiaia, N.L.

Distribution of visual callosal projection neurons in hamsters subjected to transection of the optic

radiations on the day of birth,

32, 217

Rhoades, R.W., see Chiaia, N.L.,

36, 75

Rhoades, R.W., see Jacquin, M.F.,

31, 161

Ribak, C.E., see Seress, L., **36**, 139

Rieke, G., see Jordan, F., **35**, 97

Roa, M., see Taguchi, T., **37**, 125

Robbins, J., see Ikeda, H., **35**, 83

Roberts, M.H., Bernstein, M.F. and

Moore, R.Y.

Differentiation of the suprachiasmatic nucleus in fetal rat anterior hypothalamic transplants in

oculo, **32**, 59

Robertson, R.T., Fogolin, R.P.,

Tijerina, A.A. and Yu, J.

Effects of neonatal monocular and binocular enucleation on transient

acetylcholinesterase activity in developing rat visual cortex, **33**, 185

Robertson, R.T., see Seress, L.,

36, 139

Robinson, S., Horsburgh, G.,

Dreher, B. and McCall, M.

Changes in the numbers of retinal ganglion cells and optic nerve axons in the developing albino rabbit,

35, 161

Robson, J.

Organization of the dorsal lateral geniculate nucleus in a cat with

congenital microphthalmia, **33**, 81

Robson, L.E., see Petrillo, P., **31**, 53

Rogister, B., see Baron-Van

Evercooren, A., **36**, 101

Romijn, H., see Van Huizen, F., **31**, 1

Roselli, C.E., see Paden, C.M.,

33, 127

Rosselli-Austin, L., Hamilton, K.H.

and Williams, J.

Early postnatal development of the rat accessory olfactory bulb, **36**, 304

Rotter, A., see Frostholt, A., **37**, 157

Rozeik, C. and Von Keyserlingk, D.

The sequence of myelination in the brainstem of the rat monitored by

myelin basic protein immunohistochemistry, **35**, 183

- Rudge, J.S., Davis, G.E.,
Manthorpe, M. and Varon, S.
An examination of ciliary
neuronotrophic factors from avian
and rodent tissue extracts using a
blot and culture technique, **32**, 103
- Ruiz-Marcos, A., see Ipiña, S.L.,
37, 219
- Rupnick, M., see Grinspan, J., **33**, 291
- Rust, R.S., see Volpe, J.J., **31**, 193
- Ryken, T.C., see Lim, R., **33**, 49
- Sagar, S.M., see Ferriero, D.M.,
34, 207
- Sakakihara, Y., see Volpe, J.J., **31**, 193
- Sakakihara, Y., see Volpe, J.J., **33**, 277
- Satoh, R., see Kano, M., **32**, 233
- Sattayasai, J., see Ehrlich, D., **33**, 139
- Sawa, A. and Stavinoha, W.B.
Heterogeneity of postnatal
development of ACh levels in brain
regions of the mouse, **34**, 151
- Schachner, M., see Eccleston, P.A.,
35, 249
- Scheich, H., see Maier, V., **31**, 15
- Scheich, H., see Wallhäusser, E.,
31, 29
- Schneider, G.E., see Moya, K.L.,
31, 183
- Schreyer, D. and Jones, E.
Growth of corticospinal axons on
prosthetic substrates introduced into
the spinal cord of neonatal rats,
35, 291
- Schroeder, H., see Pereira de
Vasconcelos, A., **36**, 231
- Schwartz, N., see Smalheiser, N.,
34, 111
- Sefton, A.J., Lund, R.D. and
Perry, V.H.
Target regions enhance the
outgrowth and survival of ganglion
cells in embryonic retina
transplanted to cerebral cortex in
neonatal rats, **33**, 145
- Segal, M., see Fernandez-Tomé, P.,
35, 158
- Segall, P.E., see Sternberg, H., **34**, 316
- Segovia, S., see Del Abril, A., **32**, 295
- Seil, F.J.
Enhanced Purkinje cell survival in
granuloprival cerebellar cultures,
35, 312
- Selak, I., see Baron-Van
Evercooren, A., **36**, 101
- Senba, E., Daddona, P. and Nagy, J.
Development of adenosine
deaminase-immunoreactive neurons
in the rat brain, **31**, 59
- Senut, M. and Alvarado-Mallart, R.
Cytodifferentiation of quail tectal
primordium transplanted
homotopically into the chick
embryo, **32**, 187
- Seress, L., Robertson, R.T. and
Ribak, C.E.
Electron microscopic localization of
acetylcholinesterase in the dentate
gyrus of young and adult rats,
36, 139
- Sharkey, M.A., Steedman, J.G.,
Lund, R.D. and Dom, R.M.
Tectal transplants into the occipital
cortex of the newborn rat, **31**, 119
- Sharma, R. and Timiras, P.S.
Age-dependent activation of
glucocorticoid receptors in the
cerebral hemispheres of male rats,
36, 285
- Sharpless, N.S., see Moshé, S.L.,
31, 129
- Shaw, C., Aoki, C., Wilkinson, M.,
Prusky, G. and Cynader, M.
Benzodiazepine ($[^3\text{H}]\text{flunitrazepam}$)
binding in cat visual cortex:
ontogenesis of normal characteristics
and the effects of dark rearing,
37, 67
- Sheldon, R., see Loy, R., **34**, 156
- Shemmer, A., see
Whitaker-Azmitia, P.M., **33**, 285
- Shibata, S. and Moore, R.Y.
Development of neuronal activity in
the rat suprachiasmatic nucleus,
34, 311
- Shipley, M.T., see Lidow, M.S.,
31, 243
- Shivers, R.R., see Arthur, F.E.,
36, 155
- Sholl, S.A., see Pomerantz, S.M.,
36, 151
- Silva, D.F., see Cavalheiro, E.A.,
37, 43
- Silverstein, F.S., Torke, L., Barks, J.
and Johnston, M.V.
Hypoxia-ischemia produces focal
disruption of glutamate receptors in
developing brain, **34**, 33
- Sinclair, C.M., Greig, D.I. and
Jeffrey, P.L.
The developmental appearance of
Thy-1 antigen in the avian nervous
system, **35**, 43
- Singer, H., see Lowenstein, P., **34**, 291
- Singer, W., see Greuel, J., **34**, 141
- Siok, C.J., see Bronzino, J., **35**, 257
- Skoff, R.P., see Knapp, P.E., **35**, 301
- Slesinger, P., see Lowenstein, P.,
34, 291
- Sloper, J., Headon, M. and
Powell, T.P.S.
Changes in the size of cells in the
monocular segment of the primate
lateral geniculate nucleus during
normal development and following
visual deprivation, **31**, 267
- Sloper, J., Headon, M. and
Powell, T.P.S.
Effects of enucleation at different
ages on the sizes of neurons in the
lateral geniculate nucleus of infant
and adult monkeys, **31**, 259
- Slotkin, T.A., see Lau, C., **36**, 277
- Smalheiser, N. and Schwartz, N.
Kinetic analysis of 'rapid onset'
neurite formation in NG108-15 cells
reveals a dual role for
substratum-bound laminin, **34**, 111
- Smith, D. and Gallagher, D.
GABA, benzodiazepine and
serotonergic receptor development
in the dorsal raphe nucleus:
electrophysiological studies, **35**, 191
- Smith, J., see Xue, Z.-G., **34**, 99
- Smith, J.L., see McKinley, P.A., **31**,
136
- Smith, S.A., see Orozco, C.B., **32**, 111
- Snyder-Keller, A.M., see
Carder, R.K., **33**, 315
- Sommer, I., see Eccleston, P.A., **35**, 249
- Spain, J.W., see Johnson, F.E., **32**, 139
- Spear, P.D., see McCall, M.A., **34**, 223
- Spear, P.D., see McCall, M.A., **34**, 235
- Sperber, E.F., see Moshé, S.L.,
31, 129
- Sperber, E.F., Wong, B.Y.,
Wurpel, J.N.D. and Moshé, S.L.
Nigral infusions of muscimol or
bicuculline facilitate seizures in
developing rats, **37**, 243
- Stavinoha, W.B., see Sawa, A., **34**, 151
- Steedman, J.G., see Sharkey, M.A.,
31, 119
- Steindler, D.A. and Cooper, N.G.F.
Glial and glycoconjugate boundaries
during postnatal development of the
central nervous system, **36**, 27
- Steindler, D.A., see O'Brien, T.F.,
32, 309
- Steriade, M., see Domich, L., **31**, 140
- Stern, J., see Grinspan, J., **33**, 291
- Sternberg, H., Segall, P.E.,
Bellport, V. and Timiras, P.S.
Glutamic acid decarboxylase activity
in discrete hypothalamic nuclei
during the development of rats,
34, 316
- Stewart, P. and Hayakawa, E.
Interendothelial junctional changes
underlie the developmental
'tightening' of the blood-brain
barrier, **32**, 271
- Suarez, I., Fernandez, B., Bodega, G.,
Tranque, P., Olmos, G. and
Garcia-Segura, L.
Postnatal development of glial
fibrillary acidic protein
immunoreactivity in the hamster
arcuate nucleus, **37**, 89
- Sullivan, R.M. and Leon, M.
One-trial olfactory learning
enhances olfactory bulb responses to
an appetitive conditioned odor in
7-day-old rats, **35**, 307
- Suppes, T., see Kriegstein, A., **34**, 161
- Svedlund, J., see Arvidsson, U.,
37, 303
- Swanson, G.J. and Vrbová, G.
Effects of low calcium and inhibition
of calcium-activated neutral protease
(CANP) on mature nerve terminal
structure in the rat sternocostalis
muscle, **33**, 199
- Sykes, J.E.C., see Warringa, R.A.J.,
34, 79
- Szucs, M., see Johnson, F.E., **32**, 139
- Szücs, M., see Oetting, G.M., **31**, 223

T

- Taguchi, T., Huchet, M., Roa, M., Changeux, J.-P. and Henderson, C.E.
A subpopulation of embryonic telencephalic neurons survive and develop in vitro in response to factors derived from the periphery, **37**, 125
- Takada, M., Fishell, G., Li, Z., Van der Kooy, D. and Hattori, T.
The development of laterality in the forebrain projections of midline thalamic cell groups in the rat, **35**, 275
- Takamatsu, K., see Mikoshiba, K., **35**, 111
- Tallini, G., see Lauriola, L., **37**, 251
- Tamir, H., see Liu, K., **32**, 31
- Tan, M.M.L. and Harvey, A.
The development and distribution of α -bungarotoxin binding sites in rat tectal transplants, **36**, 293
- Tanaka, R., see Kato, T., **33**, 153
- Tanila, H., see Carlson, S., **33**, 101
- Taniura, H., see Hayashi, Y., **35**, 11
- Tavani, A., see Petrillo, P., **31**, 53
- Teitelman, G., see Iacovitti, L., **33**, 59
- Teranishi, T., see Negishi, K., **33**, 67
- Thanos, S. and Dütting, D.
Outgrowth and directional specificity of fibers from embryonic retinal transplants in the chick optic tectum, **32**, 161
- Tholey, G., Ghandour, M., Bloch, S., Ledig, M. and Mandel, P.
Glutamine synthetase and energy metabolism enzymes in cultivated chick neurons and astrocytes: modulation by serum and hydrocortisone, **31**, 73
- Thomas, W., see Jordan, F., **35**, 97
- Thompson, J.L., see Holmes, G.L., **36**, 281
- Tijerina, A.A., see Robertson, R.T., **33**, 185
- Timiras, P.S., see Sharma, R., **36**, 285
- Timiras, P.S., see Sternberg, H., **34**, 316
- Todd, M.S., see Carey, D.J., **32**, 95
- Toffano, G., see Giorgi, O., **35**, 283
- Toga, A.W.
The metabolic consequence of visual deprivation in the rat, **37**, 209
- Tohyama, M., see Kiyama, H., **31**, 303
- Tolbert, D.
Intrinsically directed pruning as a mechanism regulating the elimination of transient collateral pathways, **33**, 11
- Tolbert, D.L., see Johnson, F.E., **32**, 139
- Torke, L., see Silverstein, F.S., **34**, 33
- Tranque, P., see Suarez, I., **37**, 89
- Trombley, P., see Allen, E., **32**, 53
- Tsukada, Y., see Mikoshiba, K., **35**, 111
- Turner, J.E., see Blair, J.R., **36**, 257

- Turski, L., see Cavalheiro, E.A., **37**, 43
- Turski, W.A., see Cavalheiro, E.A., **37**, 43

U

- Uylings, H.B.M., see Kalsbeek, A., **32**, 123
- Uziel, A., see Puel, J.-L., **37**, 179

V

- Valverde, F. and Facal-Valverde, M.
Transitory population of cells in the temporal cortex of kittens, **32**, 283
- Van der Kooy, D., see Johnston, J.G., **33**, 310
- Van der Kooy, D., see Takada, M., **35**, 275
- Van Golde, L.M.G., see Warringa, R.A.J., **34**, 79
- Van Huizen, F., Romijn, H. and Corner, M.
Indications for a critical period for synapse elimination in developing rat cerebral cortex cultures, **31**, 1
- Varon, S., see Davis, G.E., **33**, 1
- Varon, S., see Rudge, J.S., **32**, 103
- Verotta, D., see Petrillo, P., **31**, 53
- Vidovic, M., Hill, C.E. and Hendry, I.A.
Developmental time course of the sympathetic postganglionic innervation of the rat eye, **32**, 133
- Volpe, J.J., Sakakihara, Y. and Ishii, S.
Dolichol-linked glycoprotein synthesis in developing mammalian brain: maturational changes of the *N*-acetylglucosaminyl-phosphotransferase, **33**, 277
- Volpe, J.J., Sakakihara, Y. and Rust, R.S.
Dolichol kinase and the regulation of dolichyl phosphate levels in developing brain, **31**, 193
- Von Keyserlingk, D., see Rozeik, C., **35**, 183
- Vrbová, G., see Lowrie, M., **31**, 91
- Vrbová, G., see Swanson, G.J., **33**, 199

W

- Wahle, P., Meyer, G., Wu, J.-Y. and Albus, K.
Morphology and axon terminal pattern of glutamate decarboxylase-immunoreactive cell types in the white matter of the cat occipital cortex during early postnatal development, **36**, 53
- Wakakuwa, K., see Ikeda, H., **35**, 83
- Wakuta, K., see Kano, M., **32**, 233
- Walker, L., see Lowenstein, P., **34**, 29
- Wallhäusser, E. and Scheich, H.
Auditory imprinting leads to differential 2-deoxyglucose uptake and dendritic spine loss in the chick rostral forebrain, **31**, 29
- Warringa, R.A.J., Hoebe, R.C., Koper, J.W., Sykes, J.E., Van Golde, L.M.G. and Lopes-Cardozo, M.
Hydrocortisone stimulates the development of oligodendrocytes in primary glial cultures and affects glucose metabolism and lipid synthesis in these cultures, **34**, 79
- Waxman, S., see Bowe, C., **34**, 123
- Waxman, S.G., see Davis, P.K., **31**, 291
- Webster, W.S., see Ashwell, K.W.S., **33**, 301
- Westenbroek, R., Westrum, L., Hendrickson, A. and Wu, J.-Y.
Immunocytochemical localization of cholecystokinin and glutamic acid decarboxylase during normal development in the prepyriform cortex of rats, **34**, 191
- Westrum, L., see Westenbroek, R., **34**, 191
- Whitaker-Azmitia, P.M., Lauder, J.M., Shemmer, A. and Azmitia, E.C.
Postnatal changes in serotonin₁ receptors following prenatal alterations in serotonin levels: further evidence for functional fetal serotonin₁ receptors, **33**, 285
- Wilkinson, M., see Shaw, C., **37**, 67
- Williams, C., Wohlenberg, G. and O'Donovan, M.
Regional variations in the extent and timing of motoneuron cell death in the lumbosacral spinal cord of the chick embryo, **34**, 215
- Williams, J., see Rosselli-Austin, L., **36**, 304
- Williams, S., see Grinspan, J., **33**, 291
- Williams, T.H., see Lim, R., **33**, 93
- Wilson, D. and Leon, M.
Abrupt decrease in synaptic inhibition in the postnatal rat olfactory bulb, **33**, 134
- Wilson, P.D., see Murakami, D.M., **35**, 215
- Wilson, P.D., see Murakami, D.M., **35**, 225
- Wohlenberg, G., see Williams, C., **34**, 215

Wong, B.Y., see Sperber, E.F., **37**, 243
 Woo, C.C. and Leon, M.
 Sensitive period for neural and behavioral response development to learned odors, **36**, 309

Wu, J., see Pessac, B., **31**, 156

Wu, J.-Y., see Wahle, P., **36**, 53

Wu, J.-Y., see Westenbroek, R., **34**, 191

Wujek, J.R. and Akeson, R.A.
 Extracellular matrix derived from astrocytes stimulates neuritic outgrowth from PC12 cells in vitro, **34**, 87

Wurpel, J.N.D., see Moshé, S.L., **31**, 129

Wurpel, J.N.D., see Sperber, E.F., **37**, 243

X

Xue, Z.-G., Smith, J. and Le

Douarin, N.M.
 Developmental capacities of avian embryonic dorsal root ganglion cells: neuropeptides and tyrosine hydroxylase in dissociated cell cultures, **34**, 99

Y

Yamini Jr., B., see Garthwaite, G., **36**, 288

Yeh, H.H., see Fukuda, M., **31**, 147

Yinon, U. and Podell, M.
 Unilateral visual cortex deafferentation induces changes in receptive field properties of cortical cells in the intact hemisphere of normal and of monocularly deprived cats, **33**, 205

Yip, J.W.

Target cues are not required for the guidance of sympathetic preganglionic axons, **32**, 155

Young, R.W., see Perkins, P., **33**, 161

Yu, J., see Robertson, R.T., **33**, 185

Z

Zamenhof, S.

Quantitative studies of mitoses in fetal rat brain: orientations of the spindles, **31**, 143

Zappia, J., see Ehrlich, D., **33**, 139

Zeevalk, G.D. and Hyndman, A.G.

Transferrin in chick retina: distribution and location during development, **37**, 231

Ziller, C., see García-Arrarás, J.E., **33**, 255

DEVELOPMENTAL BRAIN RESEARCH
SUBJECT INDEX
1987
VOLUMES 428-433, 465 (31-36, 37)

A

Accessory olfactory bulb

Brain development; Main olfactory bulb; Rat; Olfactory pathway (Rosselli-Austin, L.) **36**, 304

Accessory optic system

Monocular deprivation; Lateral and dorsal terminal nuclei; Direction and velocity selectivity; Ocular dominance; Cat (Grasse, K.L.) **31**, 229

Acetylcholine

Postnatal brain development; Mouse; Weaning (Sawa, A.) **34**, 151

Hippocampus; Dentate gyrus; Septum; Development; Sex dimorphism (Loy, R.) **34**, 156

Non-pyramidal neuron; Cerebral cortex; Immunocytochemistry (Hendry, S.H.C.) **37**, 313

Acetylcholine synthesis

Postnatal development; Hippocampus; Frontal cortex; Choline uptake (Kotas, A.M.) **35**, 175

Acetylcholinesterase

Cerebral cortex; Deprivation; Development; Enucleation; Visual system (Robertson, R.T.) **33**, 185

Muscarinic receptor; Neuroblastoma; Phorbol ester; Retinoic acid; Differentiation; Choline acetyltransferase (Adem, A.) **33**, 235

Purkinje cell; Cerebellum; Choline acetyltransferase immunohistochemistry; Development (Gould, E.) **34**, 303

Thyroid hormone; Nerve growth factor; Subcortical cholinergic neuron; Regulation of choline acetyltransferase; 3,3',5-Triiodo-L-thyronine; Cholinergic cell culture; Interaction between humoral factors (Hayashi, M.) **36**, 109

Acetylcholinesterase histochemistry

Electron microscopy; Dentate gyrus; Development; Rat (Seress, L.) **36**, 139

Action potential

Sensory neuron; Afterhyperpolarizing potential (HAP); Down syndrome; Mouse; Trisomy 16; Tissue culture; Membrane property (Orozco, C.B.) **32**, 111

Activation

Glucocorticoid receptor; Cerebral hemisphere; Age (Sharma, R.) **36**, 285

Activity

Optic fiber; Tectum; Tetrodotoxin; Topography; Pathway; Goldfish; Regeneration (Meyer, R.L.) **37**, 115

Acute cat

Visual cortex deafferentation; Optic

tract; Monocular deprivation; Orientation selectivity; Direction selectivity; Receptive field area; Corpus callosum; Chronic cat (Yinon, U.) **33**, 205

Adenosine

Adenosine deaminase; Immunohistochemistry; Ontogenesis; Rat brain; Purinergic neurotransmission; Purine metabolism (Senba, E.) **31**, 59

Cyclic adenosine monophosphate; Optic tectum; Neurotransmitter; Chick embryo (Marques Ventura, A.) **35**, 141

Development; N-Protein; Cyclohexyladenosine; 5'-Guanylylimidodiphosphate (Morgan, P.F.) **35**, 269

Adenosine deaminase

Adenosine; Immunohistochemistry; Ontogenesis; Rat brain; Purinergic neurotransmission; Purine metabolism (Senba, E.) **31**, 59

Adenylate cyclase

Phosphatidylinositol turnover; Calcium flux; Neurotransmitter receptor; Neuroblastoma; Differentiation (Reboulleau, C.P.) **31**, 213

D₁-dopamine receptors; [³H]SCH 23390; Dopamine; Development; Aging; Striatum (Giorgi, O.) **35**, 283

Adrenergic

Neuropeptide; Differentiation; Autonomic neuron; Vasoactive intestinal polypeptide (VIP); Cholinergic; Neural crest (García-Arrarás, J.E.) **33**, 255

Adrenergic receptor

Cholinergic receptor; Neuroblastoma; Differentiation (Reboulleau, C.P.) **31**, 201

α₂-Adrenoceptor

Locus coeruleus; Development; Noradrenaline; Autoinhibition; Negative feedback; Ionophoresis; Piperoxane (Kimura, F.) **35**, 21

Adult rat

Olfaction; Exposure; Mitral cell; Cell shrinkage (Panhuber, H.) **31**, 307

Afterhyperpolarizing potential (HAP)

Sensory neuron; Down syndrome; Mouse; Trisomy 16; Action potential; Tissue culture; Membrane property (Orozco, C.B.) **32**, 111

Age

Glutamic acid decarboxylase; Sexual maturation; γ-Aminobutyric acid; Hypothalamus; Rat (Sternberg, H.) **34**, 316

Glucocorticoid receptor; Activation; Cerebral hemisphere (Sharma, R.) **36**, 285

Age dependency

Motoneuron; Dorsal root ganglion;

Survival; Neurite regeneration (Nichol, K.) **32**, 85

Age-dependence

Somatosensory cortex; Mapping; Reorganization (McKinley, P.A.) **31**, 136

Aggregate culture

Oligodendroglia; Spinal cord; Cortex; Myelination; Perineuronal cell (Devon, R.M.) **32**, 289

Aging

Synapse; Development; Synaptogenesis (Markus, E.J.) **35**, 239

D₁-dopamine receptors; [³H]SCH 23390; Adenylate cyclase; Dopamine; Development; Striatum (Giorgi, O.) **35**, 283

Pyramidal neuron; Multivariate analysis; Neonatal hypothyroidism; Cerebral cortex (Ipiña, S.L.) **37**, 219

Agranular ferret

Development; Synapse elimination; Cerebellum; Purkinje cell (Benoit, P.) **34**, 51

Amacrine cell

Somatostatin; Development; Retina; Ganglion cell (Ferriero, D.M.) **34**, 207

Amiloride

Astrocyte; Proliferation; Phorbol ester; Insulin; Cell culture (Murphy, S.) **31**, 133

Amino acid

Energy metabolism; Glucose; Developing rat brain; Thyroid hormone; Phenobarbital; Barbiturate; Chronic treatment (Pereira de Vasconcelos, A.) **36**, 219

Energy metabolism; Ketone body; Developing rat brain; Phenobarbital; Barbiturate; Chronic treatment (Pereira de Vasconcelos, A.) **36**, 231

γ-Aminobutyric acid

Quail; Neuroretina; Photoreceptor; Glutamic acid decarboxylase (GAD); Immunoreactivity (Pessac, B.) **31**, 156

Glutamic acid decarboxylase (GAD); Basal ganglion; Synaptic inhibition; Neuronal morphogenesis; Transmitter/metabolic enzyme differentiation; Fetal/perinatal brain development; Immunohistochemistry; Correlative light and electron microscopy (Fisher, R.) **33**, 215

Glutamic acid decarboxylase; Sexual maturation; Age; Hypothalamus; Rat (Sternberg, H.) **34**, 316

Taurine; Release; Development; Neurotransmitter (Kontro, P.) **37**, 277

Muscimol; Bicuculline; Seizure; Substantia nigra; Rat; Newborn (Sperber, E.F.) **37**, 243

Benzodiazepine; Receptor; Cat visual

cortex; Postnatal development; Dark rearing (Shaw, C.) **37**, 67

[³H]γ-Aminobutyric acid

Immunocytochemistry; Autoradiography; Oligodendrocyte; Astrocyte; Neuron; D-[³H]Aspartate; Tissue culture (Reynolds, R.) **36**, 1

Oligodendrocyte; Astrocyte; Immunocytochemistry; Autoradiography; D-[³H]Aspartate; Central nervous system culture; Serum-free medium (Reynolds, R.) **36**, 13

Amplitude

Auditory brainstem response; Development; Tone pip (Blatchley, B.) **32**, 75

Amygdala

Ventral tegmental area; Prefrontal cortex; Dopaminergic projection; Dopamine lesion; Serotonin; Cortical thickness; Nissl staining (Kalsbeek, A.) **32**, 123

Seizure; Epilepsy; Kindling; Hippocampus (Holmes, G.L.) **36**, 281

Analgesia

Opiate; Morphine; Ketocyclazocine, μ opioid receptor; κ opioid receptor; Ontogeny (Giordano, J.) **32**, 247

Androgen

Sex differentiation; Hypothalamus-preoptic area; Aromatase; Estrogen; Transplant; Testosterone (Paden, C.M.) **33**, 127

Synaptogenesis; Electrophysiology; Spinal nucleus of the bulbocavernosus; Sexual dimorphism; Sexual differentiation (Rand, M.N.) **33**, 150

Primate; Brain; Receptor; Fetus (Pomerantz, S.M.) **36**, 151

Animal, newborn

Basal ganglion; Muscimol; Catecholamine; Seizure; Rat (Moshé, S.L.) **31**, 129

Anterograde tracing

Corticospinal tract; Development; Termination field; Rat (Joosten, E.A.J.) **36**, 121

Antibody

Development; Vision; Ganglion cell; α -Cell; Y-cell; Retina; Lateral geniculate nucleus (McCall, M.A.) **34**, 223

Ocular dominance; Vision; Striate cortex; Monocular deprivation; Y-cell; Binocular competition (McCall, M.A.) **34**, 235

Antigenicity

Ependyma; Tissue culture; Cerebral cortex; Cilia; Developmental morphology; Rat; Immunohistochemistry (Jordan, F.) **35**, 97

Antineurofilament antibody

Immunocytochemistry; Rodent central nervous system; Radial glia; Subpial astrocyte; Glial fibrillary acid protein; Glial palisade; Central nervous system development (Bitner, C.) **37**, 167

Antitubulin

Growing axon; Cold-stable microtubule; Differentiating nervous system; Rodent (Cohen, E.) **36**, 171

Arcuate nucleus

Astrocyte; Radial glia; Glial fibrillary acidic protein; Hypothalamus; Development; Immunocytochemistry (Suarez, I.) **37**, 89

Aromatase

Sex differentiation; Hypothalamus-preoptic area; Androgen; Estrogen; Transplant; Testosterone (Paden, C.M.) **33**, 127

[³H]D-Aspartate

Immunocytochemistry; Autoradiography; Oligodendrocyte; Astrocyte; Neuron; γ -[³H]Aminobutyric acid; Tissue culture (Reynolds, R.) **36**, 1

Oligodendrocyte; Astrocyte; Immunocytochemistry; Autoradiography; [³H]γ-Aminobutyric acid; Central nervous system culture; Serum-free medium (Reynolds, R.) **36**, 13

Astrocyte

Glutamine synthetase; Chick neuron; Hydrocortisone; Energy metabolism (Tholey, G.) **31**, 73

Maturation factor; Growth factor; Monoclonal antibody (Lim, R.) **33**, 49

Maturation factor; Growth factor; Monoclonal antibody; Bergmann glia (Lim, R.) **33**, 93

Neurite-promoting factor; Nerve growth factor; Schwann cell (Assouline, J.G.) **31**, 103

Proliferation; Phorbol ester; Amiloride; Insulin; Cell culture (Murphy, S.) **31**, 133

Extracellular matrix; Neurite outgrowth; Development; PC12 cells; In vitro (Wujek, J.R.) **34**, 87

Immunocytochemistry; Autoradiography; Oligodendrocyte; Neuron; γ -[³H]Aminobutyric acid; D-[³H]Aspartate; Tissue culture (Reynolds, R.) **36**, 1

Oligodendrocyte; Immunocytochemistry; Autoradiography; [³H]γ-Aminobutyric acid; D-[³H]Aspartate; Central nervous system culture; Serum-free medium (Reynolds, R.) **36**, 13

Blood-brain barrier; Brain capillary endothelium; Tight junction; Extracellular matrix (Arthur, F.E.) **36**, 155

Radial glia; Glial fibrillary acidic protein; Arcuate nucleus; Hypothalamus; Development; Immunocytochemistry (Suarez, I.) **37**, 89

Astroglia

Endothelial cell; Extracellular matrix; Glutamine synthetase (Grinspan, J.) **33**, 291

Astroglial maturation

Optic nerve; Chiasm; Tract; Glial filament protein (Bovolenta, P.) **33**, 113

Asymmetry

Development; Nerve root; Sensory axon; Lobster (Govind, C.) **35**, 131

Mg²⁺-ATPase

Cerebellum; Na⁺, K⁺-ATPase; Synaptosomal fraction; Estradiol benzoate; Neonatal estrogenization (Litteria, M.) **33**, 157

Auditory

Brainstem; Evoked potential; Development; Rabbit (Pettigrew, A.G.) **33**, 267

Auditory brainstem response

Development; Tone pip; Amplitude (Blatchley, B.) **32**, 75

Auditory cortex

Kitten; Cochlear damage; Microelectrode mapping (Reale, R.A.) **34**, 281

Auditory system

Imprinting; Bird; 2-Deoxyglucose; Sensitive phase (Maier, V.) **31**, 15

Imprinting; Learning; Bird; 2-Deoxyglucose; Dendritic spine (Wallhäusser, E.) **31**, 29

Autoinhibition

Locus coeruleus; Development; Noradrenaline; α_2 -Adrenoceptor; Negative feedback; Ionophoresis; Piperoxane (Kimura, F.) **35**, 21

Autonomic neuron

Neuropeptide; Differentiation; Vasoactive intestinal polypeptide (VIP); Adrenergic; Cholinergic; Neural crest (García-Arrarás, J.E.) **33**, 255

Autoradiography

Neurotensin binding site; Ontogeny; Cerebral cortex; Rat (Kiyama, H.) **31**, 303

Perinatal; Hypoxia-ischemia; Glutamic acid; Dentate gyrus (Silverstein, F.S.) **34**, 33

Immunocytochemistry; Oligodendrocyte; Astrocyte; Neuron; γ -[³H]Aminobutyric acid; D-[³H]Aspartate; Tissue culture (Reynolds, R.) **36**, 1

Oligodendrocyte; Astrocyte; Immunocytochemistry; [³H]γ-Aminobutyric acid; D-[³H]Aspartate; Central nervous

system culture; Serum-free medium (Reynolds, R.) **36**, 13

Tritiated fucose incorporation; Lectin binding; Glial fibrillary acidic protein immunocytochemistry; Central nervous system hidden boundary; Pattern formation molecule (Steindler, D.A.) **36**, 27

Neurogenesis; Cell death; Bromodeoxyuridine; Chick (Bannigan, J.G.) **36**, 161

High-affinity GABA_A receptor; Granule cell; Purkinje cell; Golgi cell; Development (Frostholm, A.) **37**, 157

Autotransplantation

Cat permanent incisor; Tooth bud; Tooth development; Pulpal axon; Electron microscopy (Erdélyi, G.) **33**, 39

Avian and rodent

Ciliary neurotrophic factor; Blot and culture; Nitrocellulose; Tissue extract; Ciliary ganglion neuron (Rudge, J.S.) **32**, 103

Avian embryo

Dorsal root ganglion; Tyrosine hydroxylase; Vasoactive intestinal polypeptide (VIP); Neuropeptide Y; Substance P; Colocalization (Xue, Z.-G.) **34**, 99

Axon

Basement membrane; Laminin; Neurite; Regeneration; Extracellular matrix (Davis, G.E.) **33**, 1

Synaptic vesicle; Cerebellar granule cell; Microtubule-associated protein; Cytoskeleton (Cambray-Deakin, M.) **34**, 1

Axon elimination

Ganglion cell loss; Axonal collateral; Binocular competition (Robinson, S.) **35**, 161

Axon elongation

Neural retina; Ganglion cell; Optic lobe; Chick embryo; Neurotrophic factor (Carri, N.) **31**, 83

Axon extension

Sympathetic neuron; Iris; Retrograde labeling (Vidovic, M.) **32**, 133

Axon guidance

Specific neuronal connection; Neural crest ablation (Yip, J.W.) **32**, 155

Spinal cord; Laminin; Neonatal rat (Schreyer, D.) **35**, 291

Axon outgrowth

Transplant; Retinal ganglion cell; Development; Cell death (Sefton, A.J.) **33**, 145

Axonal collateral

Ganglion cell loss; Axon elimination; Binocular competition (Robinson, S.) **35**, 161

Axonal maturation

Ionic channel; Development;

Regeneration; Myelination (Bowe, C.) **34**, 123

Axonal transport

Blood-brain barrier; Visual system; Developmental neurobiology; CNS protein (Moya, K.L.) **31**, 183

B

Baboon striatum

[³H]Hemicholinium binding; Basal ganglion; Choline uptake system; Development (Lowenstein, P.) **34**, 291

Barbiturate

Energy metabolism; Glucose; Amino acid; Developing rat brain; Thyroid hormone; Phenobarbital; Chronic treatment (Pereira de Vasconcelos, A.) **36**, 219

Energy metabolism; Ketone body; Amino acid; Developing rat brain; Phenobarbital; Chronic treatment (Pereira de Vasconcelos, A.) **36**, 231

Barium action potential

Calcium channel; Development; Chick myotube; Culture (Kano, M.) **32**, 233

Barrel

Trigeminal; Plasticity; Development; Brainstem; Nerve damage (Jacquin, M.F.) **31**, 161

Basal ganglia

Muscimol; Catecholamine; Seizure; Rat; Animal, newborn (Moshé, S.L.) **31**, 129

Glutamic acid decarboxylase (GAD); γ -Aminobutyric acid (GABA); Synaptic inhibition; Neuronal morphogenesis; Transmitter/metabolic enzyme differentiation; Fetal/perinatal brain development; Immunohistochemistry; Correlative light and electron microscopy (Fisher, R.) **33**, 215

[³H]Hemicholinium binding; Choline uptake system; Baboon striatum; Development (Lowenstein, P.) **34**, 291

Basal ganglia system

Postnatal development; Monkey; Subthalamic nucleus; Stereology; Synapse elimination (Fisher, J.E.) **36**, 39

Basement membrane

Laminin; Neurite; Regeneration; Axon; Extracellular matrix (Davis, G.E.) **33**, 1

Bed nucleus of the stria terminalis

Sex difference; Vomeronasal system (Del Abril, A.) **32**, 295

Benzodiazepine

γ -Aminobutyric acid (GABA); Receptor; Cat visual cortex; Postnatal development; Dark rearing (Shaw, C.) **37**, 67

Benzodiazepine receptor

GABA_A receptor; GABA_B receptor; Serotonin; Dorsal raphe nucleus; Receptor development (Smith, D.) **35**, 191

Bergmann glia

Maturation factor; Growth factor; Monoclonal antibody; Astrocyte (Lim, R.) **33**, 93

Bicuculline

γ -Aminobutyric acid; Muscimol; Seizure; Substantia nigra; Rat; Newborn (Sperber, E.F.) **37**, 243

Binding

Ontogeny; Muscarinic receptor; Hippocampus primary culture (Fernandez-Tomé, P.) **35**, 158

Binding affinity

Membrane suspension of rat brain; Postnatal development; Opioid binding site; μ -, δ - and β -Sites; Maximum binding capacity (Petrillo, P.) **31**, 53

Binocular competition

Antibody; Ocular dominance; Vision; Striate cortex; Monocular deprivation; Y-cell (McCall, M.A.) **34**, 235

Ganglion cell loss; Axon elimination; Axonal collateral (Robinson, S.) **35**, 161

Binocular deprivation

Glucose metabolism; Dark rearing (Toga, A.W.) **37**, 209

Bioassay

Neurite extension factor; S100 protein; Neuroblastoma cell; Defined medium; Morphological differentiation (Kligman, D.) **33**, 296

Bioelectric brain development

Electroencephalographic power spectrum; Electroencephalographic ontogeny; Hippocampus; Frontal cortex; Brain development; Vigilance state; θ -Rhythm (Bronzino, J.) **35**, 257

Bird

Imprinting; Auditory system; 2-Deoxyglucose; Sensitive phase (Maier, V.) **31**, 15

Imprinting; Learning; Auditory system; 2-Deoxyglucose; Dendritic spine (Wallhäusser, E.) **31**, 29

Birth dating

Fetal rat brain; Dissociated cell; Serum-free culture; Cell-cycle analysis; Synchronized brain cell; Thymidine labelling (Ahmed, Z.) **37**, 77

Blindness

Visual deprivation; Monkey; Brodmann's area 7; Plasticity; Recovery (Carlson, S.) **33**, 101

Blood-brain barrier

Axonal transport; Visual system;
Developmental neurobiology; CNS
protein (Moya, K.L.) **31**, 183

Tight junction; Ontogeny; Permeability
(Stewart, P.) **32**, 271

Astrocyte; Brain capillary endothelium;
Tight junction; Extracellular matrix
(Arthur, F.E.) **36**, 155

Blot and culture

Ciliary neuronotrophic factor;
Nitrocellulose; Avian and rodent;
Tissue extract; Ciliary ganglion neuron
(Rudge, J.S.) **32**, 103

Brain

DNA synthesis; Morphine; Naloxone;
Naltrexone; Ontogeny; Opiate;
[³H]Thymidine (Kornblum, H.I.)
31, 45

Cholecystokinin; Opioid receptor;
Development; Rat; Neonate
(Johnson, F.E.) **32**, 139

Retina; Development; Mouse; Histone;
Nucleus (Perkins, P.) **33**, 161

Mouse; Peripheral tissue; Estradiol;
Diabetes; Obesity (Garris, D.R.)
35, 153

Development; Galactoside;
Glycoconjugate; Lectin; Mouse
(Joubert, R.) **36**, 146

Primate; Androgen; Receptor; Fetus
(Pomerantz, S.M.) **36**, 151

Brain capillary endothelium

Astrocyte; Blood-brain barrier; Tight
junction; Extracellular matrix
(Arthur, F.E.) **36**, 155

Brain damage

Pilocarpine; Maturation; Seizure;
Development; Rat (Cavalheiro, E.A.)
37, 43

Brain development

Dolichyl phosphate; Dolichol kinase;
Glycoprotein synthesis (Volpe, J.J.)
31, 193

Neuroglia; Glutamine synthetase;
S-100; Glial fibrillary acidic protein;
Carbonic anhydrase; Cell interactions;
Cell culture (Linser, P.J.) **31**, 277

Electroencephalographic power
spectrum; Electroencephalographic
ontogeny; Hippocampus; Frontal
cortex; Bioelectric brain development;
Vigilance state; θ -Rhythm
(Bronzino, J.) **35**, 257

Accessory olfactory bulb; Main
olfactory bulb; Rat; Olfactory pathway
(Rosselli-Austin, L.) **36**, 304

Brain growth spurt EEG

Cerebral cortical ontogeny;
Environmental effect on brain
development; Cingulate EEG power
spectrum; Hippocampal theta;
Olfactory bulb EEG development;
Limbic system EEG ontogeny; EEG

plasticity in undernutrition
(Rajanna, B.) **37**, 97

Brain organization

Ontogenesis; Luteinizing hormone;
Prolactin; Haloperidol; Sex difference
(Lacau de Mengido, I.) **35**, 91

Brain transplant

Suprachiasmatic nucleus;
Immunohistochemistry; Vasopressin;
Vasoactive intestinal polypeptide;
Hypothalamus; Neural development
(Roberts, M.H.) **32**, 59

Brainstem

Trigeminal; Barrel; Plasticity;
Development; Nerve damage
(Jacquin, M.F.) **31**, 161

Auditory; Evoked potential;
Development; Rabbit
(Pettigrew, A.G.) **33**, 267

Myelination; Myelin basic protein;
Immunohistochemistry;
Peroxidase-antiperoxidase method;
Rat (Rozeik, C.) **35**, 183

Brodmann's area 7

Visual deprivation; Monkey; Blindness;
Plasticity; Recovery (Carlson, S.)
33, 101

Bromodeoxyuridine

Neurogenesis; Cell death; Chick;
Autoradiography (Bannigan, J.G.)
36, 161

 α -Bungarotoxin

Receptor; Superior colliculus; Neural
graft; Rat; Development
(Tan, M.M.L.) **36**, 293

C**C lamina**

Lateral geniculate nucleus;
Development; Plasticity; Monocular
deprivation (Murakami, D.M.) **35**, 215

Ca²⁺

Differentiation; Excitatory amino acid;
Cerebellar neuron; Granule cell;
Guanylate cyclase; Cyclic guanosine
monophosphate (Novelli, A.) **34**, 307

Calcium

Protease; Neuromuscular junction;
Plasticity; Synapse (Swanson, G.J.)
33, 199

Circadian rhythm; Suprachiasmatic
nucleus; Hypothalamic slice; Neuronal
activity (Shibata, S.) **34**, 311

Calcium channel

Barium action potential; Development;
Clck myotube; Culture (Kano, M.)
32, 233

Calcium flux

Phosphatidylinositol turnover;
Adenylate cyclase; Neurotransmitter
receptor; Neuroblastoma;
Differentiation (Reboulleau, C.P.)
31, 213

Calmodulin antagonist

NG108-15 cell; Neurite; Laminin;
Cycloheximide; Phorbol ester
(Smalheiser, N.) **34**, 111

Carbonic anhydrase

Neuroglia; Brain development;
Glutamine synthetase; S-100; Glial
fibrillary acidic protein; Cell
interactions; Cell culture (Linser, P.J.)
31, 277

Development; Oligodendrocyte; Optic
nerve; Glia; Myelination; PH
(Davis, P.K.) **31**, 291

Cat

Accessory optic system; Monocular
deprivation; Lateral and dorsal
terminal nuclei; Direction and velocity
selectivity; Ocular dominance
(Grasse, K.L.) **31**, 229

Temporal cortex; Development;
Neuronal death (Valverde, F.) **32**, 283

Postnatal development; Motoneuron;
Synapse elimination; Spinal cord;
Ultrastructure (Arvidsson, U.) **37**, 303

Cat permanent incisor

Autotransplantation; Tooth bud; Tooth
development; Pulpal axon; Electron
microscopy (Erdélyi, G.) **33**, 39

Cat visual cortex

Benzodiazepine; γ -Aminobutyric acid
(GABA); Receptor; Postnatal
development; Dark rearing (Shaw, C.)
37, 67

Catecholamine

Basal ganglion; Muscimol; Seizure;
Rat; Animal, newborn (Moshé, S.L.)
31, 129

Phenylethanolamine

N-methyltransferase; Tyrosine
hydroxylase; Neurotransmitter
development; Glucocorticoid; Neuronal
cell culture; Neuronal differentiation
(Bohn, M.C.) **37**, 257

Catecholamine secretion in neonate

Sympatho-adrenal development;
Hypoglycemia (Lau, C.) **36**, 277

Caudate-putamen

Hypoxia-ischemia; Choline
acetyltransferase; Nucleus basalis;
Striatum; Cholinergic neuron
(Johnston, M.V.) **34**, 41

 α -Cell

Antibody; Development; Vision;
Ganglion cell; Y-cell; Retina; Lateral
geniculate nucleus (McCall, M.A.)
34, 223 Cell culture

Astrocyte; Proliferation; Phorbol ester;
Amiloride; Insulin (Murphy, S.)
31, 133

Retina; Leu-enkephalin;
Immunocytochemistry; Development
(Fukuda, M.) **31**, 147

Neuroglia; Brain development;
Glutamine synthetase; S-100; Glial
fibrillary acidic protein; Carbonic
anhydrase; Cell interactions
(Linsler, P.J.) **31**, 277

Synaptogenesis; Retinal neuron;
Muscle cell (Puro, D.G.) **33**, 305

Nerve growth factor; Sympathetic
neuron; Nerve fiber sprouting; Nerve
fiber regeneration; Growth cone
(Campenot, R.B.) **37**, 293

Cell cycle
Oligodendroglia; Jimmy mouse; Myelin
(Knapp, P.E.) **35**, 301

Cell death
Transplant; Retinal ganglion cell;
Development; Axon outgrowth
(Sefton, A.J.) **33**, 145

Retina; Mitosis; Regulation; Rat
(Beazley, L.) **33**, 169

Testosterone; Medial preoptic area;
Intracerebral transplant;
Neuronotrophic agent; Sexually
dimorphic (Arendash, G.W.) **34**, 69

Spinal cord; Motoneuron; Chick
embryo (Williams, C.) **34**, 215

Rat; Infraorbital nerve; Regeneration;
Transganglionic reorganization
(Chiaia, N.L.) **36**, 75

Neurogenesis; Bromodeoxyuridine;
Chick; Autoradiography
(Bannigan, J.G.) **36**, 161

Cell enlargement
Odor; Olfaction; Exposure; Mitral cell;
Neonate; Cell-shrinkage
(Panhuber, H.) **34**, 133

Cell interactions
Neuroglia; Brain development;
Glutamine synthetase; S-100; Glial
fibrillary acidic protein; Carbonic
anhydrase; Cell culture (Linsler, P.J.)
31, 277

Cell lineage
Cortical development; Chimera;
Mouse; Somatosensory barrel
(Goldowitz, D.) **35**, 1

Cell migration
Midline thalamic nucleus; Forebrain;
Laterality; Development; Retrograde
double labeling; Rat (Takada, M.)
35, 275

Cell shrinkage
Olfaction; Exposure; Adult rat; Mitral
cell (Panhuber, H.) **31**, 307

Odor; Olfaction; Exposure; Mitral cell;
Neonate; Cell enlargement
(Panhuber, H.) **34**, 133

Cell surface glycoprotein
Thy-1; Neural antigen; Chicken;
Development (Sinclair, C.M.) **35**, 43

Cell-cycle analysis

Fetal rat brain; Dissociated cell;
Serum-free culture; Synchronized brain
cell; Thymidine labelling; Birth dating
(Ahmed, Z.) **37**, 77

Central nervous system culture

Oligodendrocyte; Astrocyte;
Immunocytochemistry;
Autoradiography; [³H]-Aminobutyric
acid; D-[³H]Aspartate; Serum-free
medium (Reynolds, R.) **36**, 13

Central nervous system development

Transient projection; Collateral;
Competition; Pruning; Neuronal death;
Cerebellum; Pyramidal tract
(Tolbert, D.) **33**, 11

Immunocytochemistry; Rodent central
nervous system; Radial glia; Subpial
astrocyte; Glial fibrillary acid protein;
Antineurofilament antibody; Glial
palisade (Bitner, C.) **37**, 167

Central nervous system hidden boundary

Tritiated fucose incorporation;
Autoradiography; Lectin binding; Glial
fibrillary acidic protein
immunocytochemistry; Pattern
formation molecule (Steindler, D.A.)
36, 27

Central nervous system protein

Axonal transport; Blood-brain barrier;
Visual system; Developmental
neurobiology (Moya, K.L.) **31**, 183

Cerebellar explant

Granuloprival cerebellar culture;
Purkinje cell; Neuronal rescue; Target
field (Seil, F.J.) **35**, 312

Cerebellar granule cell

Synaptic vesicle;
Microtubule-associated protein;
Cytoskeleton; Axon
(Cambray-Deakin, M.) **34**, 1

In vitro; Development; Cytoskeleton;
Neurite outgrowth;
Immunofluorescence
(Cambray-Deakin, M.) **37**, 197

Cerebellar neuron

Differentiation; Excitatory amino acid;
Granule cell; Guanylate cyclase; Cyclic
guanosine monophosphate; Ca²⁺
(Novelli, A.) **34**, 307

Cerebellum

Glutamic acid decarboxylase; Tyrosine
hydroxylase; Choline acetyltransferase;
Somatostatin; Substance P; Primate;
Ontogeny (Hayashi, M.) **32**, 181

Central nervous system development;
Transient projection; Collateral;
Competition; Pruning; Neuronal death;
Pyramidal tract (Tolbert, D.) **33**, 11

Na⁺, K⁺-ATPase; Mg²⁺-ATPase;
Synaptosomal fraction; Estradiol
benzoate; Neonatal estrogenization
(Litteria, M.) **33**, 157

Development; Synapse elimination;
Purkinje cell; Agranular ferret
(Benoit, P.) **34**, 51

Purkinje cell; Choline acetyltransferase
immunohistochemistry; Development;
Acetylcholinesterase (Gould, E.)
34, 303

Glutamate; N-Methyl-D-aspartate;
Kainate; Quisqualate; Postnatal
development; Purkinje cell; Granule
cell (Garthwaite, G.) **36**, 288

Cerebral cortex

Synaptogenesis; Plasticity; Critical
period; In vitro (Van Huizen, F.) **31**, 1

Neurotensin binding site; Ontogeny;
Autoradiography; Rat (Kiyama, H.)
31, 303

Sprouting; Serotonin;
6-Hydroxydopamine; Development;
Raphe-cortical projection; Raphe
nuclei (Blue, M.E.) **32**, 255

Acetylcholinesterase; Deprivation;
Development; Nucleation; Visual
system (Robertson, R.T.) **33**, 185

Ependyma; Antigenicity; Tissue
culture; Cilia; Developmental
morphology; Rat;
Immunohistochemistry (Jordan, F.)
35, 97

Pyramidal neuron; Multivariate
analysis; Neonatal hypothyroidism;
Ageing (Ipiña, S.L.) **37**, 219

Acetylcholine; Non-pyramidal neuron;
Immunocytochemistry
(Hendry, S.H.C.) **37**, 313

Cerebral cortex lesion

Visual system; Rat; Trophic factor; In
vivo assay; Dorsal lateral geniculate
nucleus (Cunningham, T.J.) **37**, 133

Cerebral cortical ontogeny

Environmental effect on brain
development; Cingulate EEG power
spectrum; Hippocampal theta;
Olfactory bulb EEG development;
Limbic system EEG ontogeny; EEG
plasticity in undernutrition; Brain
growth spurt EEG (Rajanna, B.)
37, 97

Cerebral hemisphere

Glucocorticoid receptor; Activation;
Age (Sharma, R.) **36**, 285

Cerebrospinal fluid pressure

Resistance to absorption;
Development; Rat (Jones, H.) **33**, 23

Chiasm

Optic nerve; Tract; Astroglial
maturation; Glial filament protein
(Bovolenta, P.) **33**, 113

Chick

Sympathetic ganglion; Choline
acetyltransferase; Tyrosine hydroxylase;
Culture; Phenotypic plasticity
(Iacovitti, L.) **33**, 59

Eyeball; Pecten; Neural implant; Optic

tectum (Ehrlich, D.) **33**, 139

Neurogenesis; Cell death;
Bromodeoxyuridine; Autoradiography
(Bannigan, J.G.) **36**, 161

Transferrin; Iron; Developing retina;
Immunocytochemistry (Zeevalk, G.D.)
37, 231

Learning; Synapse; Protein synthesis
inhibition (Bradley, P.) **37**, 267

Chick embryo

Neural retina; Ganglion cell; Axon
elongation; Optic lobe; Neurotrophic
factor (Carri, N.) **31**, 83

Spinal cord; Motoneuron; Cell death
(Williams, C.) **34**, 215

Adenosine; Cyclic adenosine
monophosphate; Optic tectum;
Neurotransmitter (Marques
Ventura, A.) **35**, 141

Spinal cord; Excitatory amino acid;
Motor activity; Development
(Barry, M.A.J.) **36**, 271

Immunohistochemistry; Progesterone
receptor; Hypothalamus; Pituitary;
Gonadotrope (Guennoun, R.) **37**, 1

Chick myotube

Calcium channel; Barium action
potential; Development; Culture
(Kano, M.) **32**, 233

Chick neuron

Glutamine synthetase; Astrocyte;
Hydrocortisone; Energy metabolism
(Tholey, G.) **31**, 73

Chick retinotectal system

Transplant; Neuronal specificity
(Thanos, S.) **32**, 161

Chick/quail chimera

Tectal transplant; Neural development
(Senut, M.) **32**, 187

Chicken

Thy-1; Neural antigen; Development;
Cell surface glycoprotein
(Sinclair, C.M.) **35**, 43

Chimera

Cortical development; Cell lineage;
Mouse; Somatosensory barrel
(Goldowitz, D.) **35**, 1

p-Chlorophenylalanine

Serotonin; Serotonin, receptor;
Developmental signal; Fetal
neurotransmitter; 5-Methoxytryptamine
(Whitaker-Azmitia, P.M.) **33**, 285

Cholecystokinin

Opioid receptor; Development; Rat;
Brain; Neonate (Johnson, F.E.) **32**, 139

Prepyriform cortex; Development;
Immunocytochemistry; Glutamic acid
decarboxylase; Neurotransmitter
(Westenbroek, R.) **34**, 191

Choline acetyltransferase

Glutamic acid decarboxylase; Tyrosine
hydroxylase; Somatostatin; Substance
P; Cerebellum; Primate; Ontogeny

(Hayashi, M.) **32**, 181

Sympathetic ganglion; Tyrosine
hydroxylase; Culture; Chick;
Phenotypic plasticity (Iacovitti, L.)
33, 59

Muscarinic receptor; Neuroblastoma;
Phorbol ester; Retinoic acid;
Differentiation; Acetylcholinesterase
(Adem, A.) **33**, 235

Hypoxia-ischemia; Caudate-putamen;
Nucleus basalis; Striatum; Cholinergic
neuron (Johnston, M.V.) **34**, 41

Development; Rat;
Immunocytochemistry; Septal/diagonal
band (Armstrong, D.M.) **36**, 249

Choline acetyltransferase immunohistochemistry

Purkinje cell; Cerebellum;
Development; Acetylcholinesterase
(Gould, E.) **34**, 303

Choline uptake

Postnatal development; Hippocampus;
Frontal cortex; Acetylcholine synthesis
(Kotas, A.M.) **35**, 175

Choline uptake system

[³H]Hemicholinium binding; Basal
ganglion; Baboon striatum;
Development (Lowenstein, P.) **34**, 291

Cholinergic

Neuropeptide; Differentiation;
Autonomic neuron; Vasoactive
intestinal polypeptide (VIP);
Adrenergic; Neural crest
(García-Arrarás, J.E.) **33**, 255

Cholinergic cell culture

Thyroid hormone; Nerve growth factor;
Subcortical cholinergic neuron;
Regulation of choline acetyltransferase;
Acetylcholinesterase;
3,3',5-Triiodo-L-thyronine; Interaction
between humoral factors (Hayashi, M.)
36, 109

Cholinergic neuron

Hypoxia-ischemia; Choline
acetyltransferase; Caudate-putamen;
Nucleus basalis; Striatum
(Johnston, M.V.) **34**, 41

Cholinergic receptor

Adrenergic receptor; Neuroblastoma;
Differentiation (Rebouleau, C.P.)
31, 201

Chromaffin cell

PC12 cell; Sodium butyrate;
Differentiation; Neuron-specific
enolase (Byrd, J.C.) **31**, 151

Chronic cat

Visual cortex deafferentation; Optic
tract; Monocular deprivation;
Orientation selectivity; Direction
selectivity; Receptive field area; Corpus
callosum; Acute cat (Yinon, U.)
33, 205

Chronic treatment

Energy metabolism; Glucose; Amino
acid; Developing rat brain; Thyroid

hormone; Phenobarbital; Barbiturate
(Pereira de Vasconcelos, A.) **36**, 219

Energy metabolism; Ketone body;
Amino acid; Developing rat brain;
Phenobarbital; Barbiturate (Pereira de
Vasconcelos, A.) **36**, 231

Cilia

Ependyma; Antigenicity; Tissue
culture; Cerebral cortex;
Developmental morphology; Rat;
Immunohistochemistry (Jordan, F.)
35, 97

Ciliary ganglion

Neurite outgrowth factor; Monoclonal
antibody; Gizzard smooth muscle
(Hayashi, Y.) **35**, 11

Ciliary ganglion neuron

Ciliary neuronotrophic factor; Blot and
culture; Nitrocellulose; Avian and
rodent; Tissue extract (Rudge, J.S.)
32, 103

Ciliary neuronotrophic factor

Blot and culture; Nitrocellulose; Avian
and rodent; Tissue extract; Ciliary
ganglion neuron (Rudge, J.S.) **32**, 103

Cingulate EEG power spectrum

Cerebral cortical ontogeny;
Environmental effect on brain
development; Hippocampal theta;
Olfactory bulb EEG development;
Limbic system EEG ontogeny; EEG
plasticity in undernutrition; Brain
growth spurt EEG (Rajanna, B.)
37, 97

Circadian rhythm

Suprachiasmatic nucleus; Hypothalamic
slice; Neuronal activity; Calcium
(Shibata, S.) **34**, 311

Cochlea

Compound action potential; Tuning
curve; Development; Rat (Puel, J.-L.)
37, 179

Cochlear damage

Kitten; Auditory cortex;
Microelectrode mapping (Reale, R.A.)
34, 281

Cold-stable microtubule

Growing axon; Antitubulin;
Differentiating nervous system; Rodent
(Cohen, E.) **36**, 171

Collagen type IV

Fibronectin; Heparan sulfate
proteoglycan; Laminin; Mouse embryo;
Neurulation (O'Shea, K.) **37**, 11

Collateral

Central nervous system development;
Transient projection; Competition;
Pruning; Neuronal death; Cerebellum;
Pyramidal tract (Tolbert, D.) **33**, 11

Colocalization

Dorsal root ganglion; Tyrosine
hydroxylase; Vasoactive intestinal
polypeptide (VIP); Neuropeptide Y;
Substance P; Avian embryo

(Xue, Z.-G.) **34**, 99

Compartment

Striatum; Intraocular transplant (Johnston, J.G.) **33**, 310

Competition

Central nervous system development; Transient projection; Collateral; Pruning; Neuronal death; Cerebellum; Pyramidal tract (Tolbert, D.) **33**, 11

Compound action potential

Cochlea; Tuning curve; Development; Rat (Puel, J.-L.) **37**, 179

Conditioning

Olfaction; [¹⁴C]2-Deoxyglucose; Neonatal rat; Olfactory bulb; Plasticity; Early learning (Sullivan, R.M.) **35**, 307

Connectional selectivity

Occipital cortex; Tectum; Transplantation; Horseradish peroxidase; Layer V; Pyramidal cell (Sharkey, M.A.) **31**, 119

Corpus callosum

Hamster; Retrograde tracing; Optic radiation lesion (Rhoades, R.W.) **32**, 217

Visual cortex deafferentation; Optic tract; Monocular deprivation; Orientation selectivity; Direction selectivity; Receptive field area; Acute cat; Chronic cat (Yinon, U.) **33**, 205

Correlative light and electron microscopy

Glutamic acid decarboxylase (GAD); γ -Aminobutyric acid (GABA); Basal ganglion; Synaptic inhibition; Neuronal morphogenesis; Transmitter/metabolic enzyme differentiation; Fetal/perinatal brain development; Immunohistochemistry (Fisher, R.) **33**, 215

Cortex

Thalamus; Electroencephalogram (EEG); Spindle (Domich, L.) **31**, 140

Guinea pig; α_1 -Receptor; Norepinephrine; Preoptic area; Hypothalamus; 6-Hydroxydopamine; Prazosin (Johnson, A.E.) **32**, 67

Oligodendroglia; Spinal cord; Aggregate culture; Myelination; Perineuronal cell (Devon, R.M.) **32**, 289

Trigeminal; Transplantation; Development; Plasticity; Regeneration (Jacquin, M.F.) **32**, 301

Neonatal 6-hydroxydopamine; Dopamine- β -hydroxylase; Immunohistochemistry; Thalamus; Hyperinnervation; Pruning effect (Gustafson, E.L.) **37**, 143

Cortical barrel

Reeler mutant mouse; Thalamic barreloid; Lectin; Glycoconjugate; Glial fibrillary acidic protein (GFAP); Glia (O'Brien, T.F.) **32**, 309

Cortical development

Chimera; Cell lineage; Mouse; Somatosensory barrel (Goldowitz, D.) **35**, 1

Cortical inhibition

Epileptogenesis; Neocortex; Developing Neuron; Neurogenesis; Pyramidal Neuron (Kriegstein, A.) **34**, 161

Cortical thickness

Ventral tegmental area; Prefrontal cortex; Dopaminergic projection; Dopamine lesion; Serotonin; Nissl staining; Amygdala (Kalsbeek, A.) **32**, 123

Corticoliberin neuron

Ovine corticotropin-releasing factor; Rat corticotropin-releasing factor; Human fetal hypothalamus; Development; Immunocytochemistry (Bresson, J.-L.) **32**, 241

Corticorubral

Plasticity; Corticothalamic; Corticospinal; Exuberance (Leonard, C.T.) **32**, 15

Corticospinal

Plasticity; Corticorubral; Corticothalamic; Exuberance (Leonard, C.T.) **32**, 15

Corticospinal tract

Development; Termination field; Anterograde tracing; Rat (Joosten, E.A.J.) **36**, 121

Corticosterone

β -Endorphin; Pituitary; Development; Rat; Stress; Pro-opiomelanocortin processing (Iny, L.J.) **31**, 177

Corticothalamic

Plasticity; Corticorubral; Corticospinal; Exuberance (Leonard, C.T.) **32**, 15

Critical period

Synaptogenesis; Plasticity; Cerebral cortex; In vitro (Van Huizen, F.) **31**, 1

Crush lesion

Rat sciatic nerve; Development; Regeneration; Myelin sheath; Internodal length; Remodelling; Light microscopy (Hildebrand, C.) **32**, 147

Culture

Calcium channel; Barium action potential; Development; Chick myotube (Kano, M.) **32**, 233

Sympathetic ganglion; Choline acetyltransferase; Tyrosine hydroxylase; Chick; Phenotypic plasticity (Iacovitti, L.) **33**, 59

Oligodendrocyte; Transferrin receptor (Espinosa de los Monteros, A.) **35**, 123

Cyclic adenosine monophosphate

Adenosine; Optic tectum; Neurotransmitter; Chick embryo (Marques Ventura, A.) **35**, 141

Cyclic guanosine monophosphate

Differentiation; Excitatory amino acid;

Cerebellar neuron; Granule cell; Guanylate cyclase; Ca^{2+} (Novelli, A.) **34**, 307

2',3'-Cyclic nucleotide

3'-phosphodiesterase (CNPase) Myelin deficient (*mld*) mutant mouse; Shiverer (*shi*) mutant mouse; Major dense line; Myelin basic protein (MBP); Myelin (Mikoshiba, K.) **35**, 111

Cycloheximide

NG108-15 cell; Neurite; Laminin; Calmodulin antagonist; Phorbol ester (Smalheiser, N.) **34**, 111

Cyclohexyladenosine

Development; Adenosine; *N*-Protein; 5'-Guanylimidodiphosphate (Morgan, P.F.) **35**, 269

Cytochrome oxidase

Parallel channel; Development; Retina; Dorsal lateral geniculate nucleus (Lachica, E.) **34**, 298

Development; Visual system; Lateral geniculate nucleus (Murakami, D.M.) **35**, 225

Cytochrome oxidase histochemistry

Methylazoxymethanol acetate; Microcephaly; Micrencephaly; Rat; Occipital cortex (Ashwell, K.W.S.) **33**, 301

Cytoskeleton

Synaptic vesicle; Cerebellar granule cell; Microtubule-associated protein; Axon (Cambray-Deakin, M.) **34**, 1

Cerebellar granule cell; In vitro; Development; Neurite outgrowth; Immunofluorescence (Cambray-Deakin, M.) **37**, 197

D

Dark rearing

Glucose metabolism; Binocular deprivation (Toga, A.W.) **37**, 209

Benzodiazepine; γ -Aminobutyric acid (GABA); Receptor; Cat visual cortex; Postnatal development (Shaw, C.) **37**, 67

Defined medium

Schwann cell; Myelination; Extracellular matrix (Carey, D.J.) **32**, 95

Neurite extension factor; S100 protein; Neuroblastoma cell; Morphological differentiation; Bioassay (Kligman, D.) **33**, 296

Delayed innervation

Transplant; Noradrenergic; Spinal cord

graft; Intraocular (Henschen, A.) **36**, 237

Dendritic spine

Imprinting; Learning; Auditory system; Bird; 2-Deoxyglucose (Wallhäusser, E.) **31**, 29

Dentate gyrus

Perinatal; Hypoxia-ischemia; Autoradiography; Glutamic acid (Silverstein, F.S.) **34**, 33

Hippocampus; Septum; Development; Acetylcholine; Sex dimorphism (Loy, R.) **34**, 156

Acetylcholinesterase histochemistry; Electron microscopy; Development; Rat (Seress, L.) **36**, 139

2-Deoxyglucose

Imprinting; Auditory system; Bird; Sensitive phase (Maier, V.) **31**, 15

Imprinting; Learning; Auditory system; Bird; Dendritic spine (Wallhäusser, E.) **31**, 29

Olfactory glomerulus; Olfactory bulb development (Woo, C.C.) **36**, 309

[¹⁴C]2-Deoxyglucose

Olfaction; Conditioning; Neonatal rat; Olfactory bulb; Plasticity; Early learning (Sullivan, R.M.) **35**, 307

Deprivation

Acetylcholinesterase; Cerebral cortex; Development; Enucleation; Visual system (Robertson, R.T.) **33**, 185

Development; Plasticity; Visual cortex; Tetrodotoxin (Greuel, J.) **34**, 141

Developing brain

Dolichyl phosphate; UDP-*N*-acetylglucosamine; Glycosyltransferase; Glycoprotein synthesis (Volpe, J.J.) **33**, 277

Developing neuron

Epileptogenesis; Neocortex; Cortical inhibition; Neurogenesis; Pyramidal Neuron (Kriegstein, A.) **34**, 161

Developing rat brain

Energy metabolism; Glucose; Amino acid; Thyroid hormone; Phenobarbital; Barbiturate; Chronic treatment (Pereira de Vasconcelos, A.) **36**, 219

Energy metabolism; Ketone body; Amino acid; Phenobarbital; Barbiturate; Chronic treatment (Pereira de Vasconcelos, A.) **36**, 231

Developing retina

Transferrin; Iron; Chick; Immunocytochemistry (Zeevalk, G.D.) **37**, 231

Development

Motoneuron; Skeletal muscle; Nerve crush (Lowrie, M.) **31**, 91

Retina; Cell culture; Leu-enkephalin; Immunocytochemistry (Fukuda, M.) **31**, 147

Trigeminal; Barrel; Plasticity;

Brainstem; Nerve damage (Jacquin, M.F.) **31**, 161

β -Endorphin; Corticosterone; Pituitary; Rat; Stress; Pro-opiomelanocortin processing (Iny, L.J.) **31**, 177

Frog; Olfactory epithelium; Regeneration (Lidow, M.S.) **31**, 243

Carbonic anhydrase; Oligodendrocyte; Optic nerve; Glia; Myelination; PH (Davis, P.K.) **31**, 291

Infant lesion effect; Sensorimotor cortex; Placing; Sparing and recovery of function (Leonard, C.T.) **32**, 1

Auditory brainstem response; Tone pip; Amplitude (Blatchley, B.) **32**, 75

Cholecystokinin; Opioid receptor; Rat; Brain; Neonate (Johnson, F.E.) **32**, 139

Rat sciatic nerve; Crush lesion; Regeneration; Myelin sheath; Internodal length; Remodelling; Light microscopy (Hildebrand, C.) **32**, 147

RGC survival; Müller glia; Superior colliculus (Armson, P.) **32**, 207

Calcium channel; Barium action potential; Chick myotube; Culture (Kano, M.) **32**, 233

Corticoliberin neuron; Ovine corticotropin-releasing factor; Rat corticotropin-releasing factor; Human fetal hypothalamus; Immunocytochemistry (Bresson, J.-L.) **32**, 241

Sprouting; Serotonin; 6-Hydroxydopamine; Raphe-cortical projection; Cerebral cortex; Raphe nuclei (Blue, M.E.) **32**, 255

Temporal cortex; Cat; Neuronal death (Valverde, F.) **32**, 283

Trigeminal; Transplantation; Cortex; Plasticity; Regeneration (Jacquin, M.F.) **32**, 301

Cerebrospinal fluid pressure; Resistance to absorption; Rat (Jones, H.) **33**, 23

Transplant; Retinal ganglion cell; Axon outgrowth; Cell death (Sefton, A.J.) **33**, 145

Retina; Brain; Mouse; Histone; Nucleus (Perkins, P.) **33**, 161

Acetylcholinesterase; Cerebral cortex; Deprivation; Enucleation; Visual system (Robertson, R.T.) **33**, 185

Brainstem; Auditory; Evoked potential; Rabbit (Pettigrew, A.G.) **33**, 267

Synapse elimination; Cerebellum; Purkinje cell; Agranular ferret (Benoit, P.) **34**, 51

Astrocyte; Extracellular matrix; Neurite outgrowth; PC12 cells; In vitro (Wujek, J.R.) **34**, 87

Axonal maturation; Ionic channel; Regeneration; Myelination (Bowe, C.) **34**, 123

Plasticity; Visual cortex; Tetrodotoxin; Deprivation (Greuel, J.) **34**, 141

Hippocampus; Dentate gyrus; Septum; Acetylcholine; Sex dimorphism (Loy, R.) **34**, 156

Prepyriform cortex; Immunocytochemistry; Cholecystokinin; Glutamic acid decarboxylase; Neurotransmitter (Westenbroek, R.) **34**, 191

Somatostatin; Retina; Amacrine cell; Ganglion cell (Ferriero, D.M.) **34**, 207

Antibody; Vision; Ganglion cell; α -Cell; Y-cell; Retina; Lateral geniculate nucleus (McCall, M.A.) **34**, 223

Spinal cord; Neonatal lesion; Plasticity; Neural tissue transplant; Serotonin; Sprouting (Bregman, B.S.) **34**, 245

Neonatal lesion; Regeneration; Spinal cord; Neural Tissue transplant; Plasticity; Serotonin; Spinal cord injury (Bregman, B.S.) **34**, 265

[³H]Hemicholinium binding; Basal ganglion; Choline uptake system; Baboon striatum (Lowenstein, P.) **34**, 291

Parallel channel; Cytochrome oxidase; Retina; Dorsal lateral geniculate nucleus (Lachica, E.) **34**, 298

Purkinje cell; Cerebellum; Choline acetyltransferase immunohistochemistry; Acetylcholinesterase (Gould, E.) **34**, 303

Locus coeruleus; Noradrenaline; α_2 -Adrenoceptor; Autoinhibition; Negative feedback; Iontophoresis; Piperoxane (Kimura, F.) **35**, 21

Olfactory bulb; Sensory deprivation; Metabolic development; Sensory system (Cullinan, W.E.) **35**, 35

Thy-1; Neural antigen; Chicken; Cell surface glycoprotein (Sinclair, C.M.) **35**, 43

Ventrolateral dendrite bundle; Onuf's nucleus; Rat; Pudendal innervation; Lumbosacral spinal cord; Quantitative Golgi study (Bellinger, D.L.) **35**, 55

Ventromedial dendrite bundle; Quantitative Golgi study; Rat; Lumbosacral spinal cord; Pudendal innervation (Bellinger, D.L.) **35**, 69

Nerve root; Sensory axon; Asymmetry; Lobster (Govind, C.) **35**, 131

Lateral geniculate nucleus; C lamina; Plasticity; Monocular deprivation (Murakami, D.M.) **35**, 215

Cytochrome oxidase; Visual system; Lateral geniculate nucleus

(Murakami, D.M.) **35**, 225

Synapse; Aging; Synaptogenesis
(Markus, E.J.) **35**, 239

Schwann cell; Lipid antigen;
Immunofluorescence; Monoclonal
antibody; Peripheral nerve; Myelin
(Eccleston, P.A.) **35**, 249

Adenosine; N-Protein;
Cyclohexyladenosine;
5'-Guanylylimidodiphosphate
(Morgan, P.F.) **35**, 269

Midline thalamic nucleus; Forebrain;
Laterality; Cell migration; Retrograde
double labeling; Rat (Takada, M.)
35, 275

D₁-dopamine receptors; [³H]SCH
23390; Adenylate cyclase; Dopamine;
Aging; Striatum (Giorgi, O.) **35**, 283

Corticospinal tract; Termination field;
Anterograde tracing; Rat
(Joosten, E.A.J.) **36**, 121

Acetylcholinesterase histochemistry;
Electron microscopy; Dentate gyrus;
Rat (Seress, L.) **36**, 139

Brain; Galactoside; Glycoconjugate;
Lectin; Mouse (Joubert, R.) **36**, 146

Olfactory epithelium; Olfactory
receptor neuron; Thyroxine; Mouse
(Mackay-Sim, A.) **36**, 190

Choline acetyltransferase; Rat;
Immunocytochemistry; Septal/diagonal
band (Armstrong, D.M.) **36**, 249

Spinal cord; Chick embryo; Excitatory
amino acid; Motor activity
(Barry, M.A.J.) **36**, 271

α -Bungarotoxin; Receptor; Superior
colliculus; Neural graft; Rat
(Tan, M.M.L.) **36**, 293

Neocortex; Epileptiform activity;
Extracellular potassium; Extracellular
calcium (Hablitz, J.J.) **36**, 299

Pilocarpine; Maturation; Seizure; Brain
damage; Rat (Cavalheiro, E.A.) **37**, 43

Astrocyte; Radial glia; Glial fibrillary
acidic protein; Arcuate nucleus;
Hypothalamus; Immunocytochemistry
(Suarez, I.) **37**, 89

High-affinity GABA_A receptor;
Granule cell; Purkinje cell; Golgi cell;
Autoradiography (Frostholt, A.)
37, 157

Cochlea; Compound action potential;
Tuning curve; Rat (Puel, J.-L.) **37**, 179

Prolactin; Opioid; Opiate μ , δ , κ
U50488; Serotonin (Bero, L.A.)
37, 189

Cerebellar granule cell; In vitro;
Cytoskeleton; Neurite outgrowth;
Immunofluorescence
(Cambray-Deakin, M.) **37**, 197

Taurine; γ -Aminobutyric acid
(GABA); Release; Neurotransmitter

(Kontro, P.) **37**, 277

Developmental morphology

Ependyma; Antigenicity; Tissue
culture; Cerebral cortex; Cilia; Rat;
Immunohistochemistry (Jordan, F.)
35, 97

Developmental neurobiology

Axonal transport; Blood-brain barrier;
Visual system; CNS protein
(Moya, K.L.) **31**, 183

Developmental regulation

Serotonin; Serotonin binding protein;
Serotonergic marker; Rat brain;
Tryptophan hydroxylase; Monoamine
oxidase (Liu, K.) **32**, 31

Developmental signal

Serotonin; Serotonin₁ receptor; Fetal
neurotransmitter;
p-Chlorophenylalanine;
5-Methoxytryptamine
(Whitaker-Azmitia, P.M.) **33**, 285

Diabetes

Mouse; Brain; Peripheral tissue;
Estradiol; Obesity (Garris, D.R.)
35, 153

Differentiating nervous system

Growing axon; Antitubulin;
Cold-stable microtubule; Rodent
(Cohen, E.) **36**, 171

Differentiation

PC12 cell; Sodium butyrate;
Chromaffin cell; Neuron-specific
enolase (Byrd, J.C.) **31**, 151

Adrenergic receptor; Cholinergic
receptor; Neuroblastoma
(Reboulleau, C.P.) **31**, 201

Phosphatidylinositol turnover; Calcium
flux; Adenylate cyclase;
Neurotransmitter receptor;
Neuroblastoma (Reboulleau, C.P.)
31, 213

Glial growth inhibitory factor; Glia
maturation factor; Neuroblastoma;
Proliferation; Glioblast (Kato, T.)
33, 153

Muscarinic receptor; Neuroblastoma;
Phorbol ester; Retinoic acid;
Acetylcholinesterase; Choline
acetyltransferase (Adem, A.) **33**, 235

Neuropeptide; Autonomic neuron;
Vasoactive intestinal polypeptide
(VIP); Adrenergic; Cholinergic; Neural
crest (García-Arrarás, J.E.) **33**, 255

Excitatory amino acid; Cerebellar
neuron; Granule cell; Guanylate
cyclase; Cyclic guanosine
monophosphate; Ca²⁺ (Novelli, A.)
34, 307

Direction and velocity selectivity

Accessory optic system; Monocular
deprivation; Lateral and dorsal
terminal nuclei; Ocular dominance; Cat
(Grasse, K.L.) **31**, 229

Direction selectivity

Visual cortex deafferentation; Optic
tract; Monocular deprivation;
Orientation selectivity; Receptive field
area; Corpus callosum; Acute cat;
Chronic cat (Yinon, U.) **33**, 205

Dissociated cell

Fetal rat brain; Serum-free culture;
Cell-cycle analysis; Synchronized brain
cell; Thymidine labelling; Birth dating
(Ahmed, Z.) **37**, 77

Divalent cation

Opioid receptor; Postnatal
development; Rat forebrain
(Oetting, G.M.) **31**, 223

DNA synthesis

Brain; Morphine; Naloxone;
Naltrexone; Ontogeny; Opiate;
[³H]Thymidine (Kornblum, H.I.)
31, 45

Dolichol kinase

Dolichyl phosphate; Glycoprotein
synthesis; Brain development
(Volpe, J.J.) **31**, 193

Dolichyl phosphate

Dolichol kinase; Glycoprotein
synthesis; Brain development
(Volpe, J.J.) **31**, 193

UDP-N-acetylglucosamine;
Glycosyltransferase; Glycoprotein
synthesis; Developing brain
(Volpe, J.J.) **33**, 277

Donor age

Retinal transplantation; Lesion
conditioning (Blair, J.R.) **36**, 257

Dopamine

Transplant; Neonatal plasticity; Stress;
6-Hydroxydopamine; Turning
(Carder, R.K.) **33**, 315

D₁-dopamine receptors; [³H]SCH
23390; Adenylate cyclase;
Development; Aging; Striatum
(Giorgi, O.) **35**, 283

Retinal ganglion cell; Retinal
development; Dopamine receptor
(Ikeda, H.) **35**, 83

Dopamine lesion

Ventral tegmental area; Prefrontal
cortex; Dopaminergic projection;
Serotonin; Cortical thickness; Nissl
staining; Amygdala (Kalsbeek, A.)
32, 123

Dopamine neuron

Neurotoxicity; Reaggregate cell
culture; Methamphetamine
(Kontur, P.) **31**, 7

Dopamine receptor

Dopamine; Retinal ganglion cell;
Retinal development (Ikeda, H.) **35**, 83

D₁-dopamine receptors

[³H]SCH 23390; Adenylate cyclase;
Dopamine; Development; Aging;
Striatum (Giorgi, O.) **35**, 283

Dopamine- β -hydroxylase

Neonatal 6-hydroxydopamine;
Immunohistochemistry; Cortex;
Thalamus; Hyperinnervation; Pruning
effect (Gustafson, E.L.) **37**, 143

Dopaminergic cell

Retinal growth; 6-Hydroxydopamine;
Wholemount; Radial section;
[^3H]Thymidine (Negishi, K.) **33**, 67

Dopaminergic projection

Ventral tegmental area; Prefrontal
cortex; Dopamine lesion; Serotonin;
Cortical thickness; Nissl staining;
Amygdala (Kalsbeek, A.) **32**, 123

Dopaminergic system

Haloperidol; Striatum development
(Iníguez, C.) **35**, 27

Dorsal lateral geniculate nucleus

Parallel channel; Cytochrome oxidase;
Development; Retina (Lachica, E.)
34, 298

Visual system; Rat; Trophic factor; In
vivo assay; Cerebral cortex lesion
(Cunningham, T.J.) **37**, 133

Dorsal raphe nucleus

GABA_A receptor; GABA_B receptor;
Benzodiazepine receptor; Serotonin;
Receptor development (Smith, D.)
35, 191

Dorsal root ganglion

Motoneuron; Survival; Neurite
regeneration; Age dependency
(Nichol, K.) **32**, 85

Tyrosine hydroxylase; Vasoactive
intestinal polypeptide (VIP);
Neuropeptide Y; Substance P;
Colocalization; Avian embryo
(Xue, Z.-G.) **34**, 99

Down syndrome

Sensory neuron; Afterhyperpolarizing
potential (HAP); Mouse; Trisomy 16;
Action potential; Tissue culture;
Membrane property (Orozco, C.B.)
32, 111

E**Early learning**

Olfaction; [^{14}C]2-Deoxyglucose;
Conditioning; Neonatal rat; Olfactory
bulb; Plasticity (Sullivan, R.M.)
35, 307

Ectopic limb

Frog motoneuron; Motor somatotomy
(Harrison, P.H.) **36**, 89

EEG plasticity in undernutrition

Cerebral cortical ontogeny;
Environmental effect on brain
development; Cingulate EEG power

spectrum; Hippocampal theta;
Olfactory bulb EEG development;
Limbic system EEG ontogeny; Brain
growth spurt EEG (Rajanna, B.)
37, 97

Electroencephalogram (EEG)

Thalamus; Cortex; Spindle
(Domich, L.) **31**, 140

Electroencephalographic ontogeny

Electroencephalographic power
spectrum; Hippocampus; Frontal
cortex; Bioelectric brain development;
Brain development; Vigilance state;
 θ -Rhythm (Bronzino, J.) **35**, 257

Electroencephalographic power spectrum

Electroencephalographic ontogeny;
Hippocampus; Frontal cortex;
Bioelectric brain development; Brain
development; Vigilance state;
 θ -Rhythm (Bronzino, J.) **35**, 257

Electron microscopy

Cat permanent incisor;
Autotransplantation; Tooth bud; Tooth
development; Pulpal axon
(Erdélyi, G.) **33**, 39

Acetylcholinesterase histochemistry;
Dentate gyrus; Development; Rat
(Seress, L.) **36**, 139

Electrophysiology

Regeneration; Topography; Optic fiber;
Tectum; Marker; Goldfish
(Meyer, R.L.) **31**, 312

Synaptogenesis; Spinal nucleus of the
bulbocavernosus; Sexual dimorphism;
Sexual differentiation; Androgen
(Rand, M.N.) **33**, 150

Embryonic brain culture

Telencephalic neuron;
Neurite-promoting factor;
Survival-promoting factor (Taguchi, T.)
37, 125

 β -Endorphin

Corticosterone; Pituitary;
Development; Rat; Stress;
Pro-opiomelanocortin processing
(Iny, L.J.) **31**, 177

Endothelial cell

Astroglia; Extracellular matrix;
Glutamine synthetase (Grinspan, J.)
33, 291

Energy metabolism

Glutamine synthetase; Chick neuron;
Astrocyte; Hydrocortisone
(Tholey, G.) **31**, 73

Glucose; Amino acid; Developing rat
brain; Thyroid hormone;
Phenobarbital; Barbiturate; Chronic
treatment (Pereira de Vasconcelos, A.)
36, 219

Ketone body; Amino acid; Developing
rat brain; Phenobarbital; Barbiturate;
Chronic treatment (Pereira de
Vasconcelos, A.) **36**, 231

Enucleation

Lateral geniculate nucleus; Primate
(Sloper, J.) **31**, 259

Acetylcholinesterase; Cerebral cortex;
Deprivation; Development; Visual
system (Robertson, R.T.) **33**, 185

Environmental effect on brain development

Cerebral cortical ontogeny; Cingulate
EEG power spectrum; Hippocampal
theta; Olfactory bulb EEG
development; Limbic system EEG
ontogeny; EEG plasticity in
undernutrition; Brain growth spurt
EEG (Rajanna, B.) **37**, 97

Ependyma

Antigenicity; Tissue culture; Cerebral
cortex; Cilia; Developmental
morphology; Rat;
Immunohistochemistry (Jordan, F.)
35, 97

Epilepsy

Seizure; Kindling; Hippocampus;
Amygdala (Holmes, G.L.) **36**, 281

Epileptiform activity

Neocortex; Extracellular potassium;
Extracellular calcium; Development
(Hablitz, J.J.) **36**, 299

Epileptogenesis

Neocortex; Developing Neuron;
Cortical inhibition; Neurogenesis;
Pyramidal Neuron (Kriegstein, A.)
34, 161

Estradiol

Mouse; Brain; Peripheral tissue;
Diabetes; Obesity (Garris, D.R.)
35, 153

Estradiol benzoate

Cerebellum; Na⁺, K⁺-ATPase;
Mg²⁺-ATPase; Synaptosomal fraction;
Neonatal estrogenization (Litteria, M.)
33, 157

Estrogen

Sex differentiation;
Hypothalamus-preoptic area;
Aromatase; Androgen; Transplant;
Testosterone (Paden, C.M.) **33**, 127

Evoked potential

Brainstem; Auditory; Development;
Rabbit (Pettigrew, A.G.) **33**, 267

Excitatory amino acid

Purkinje cell; Postnatal development
(Dupont, J.-L.) **34**, 59

Differentiation; Cerebellar neuron;
Granule cell; Guanylate cyclase; Cyclic
guanosine monophosphate; Ca²⁺
(Novelli, A.) **34**, 307

Spinal cord; Chick embryo; Motor
activity; Development (Barry, M.A.J.)
36, 271

Exposure

Olfaction; Adult rat; Mitral cell; Cell
shrinkage (Panhuber, H.) **31**, 307

Odor; Olfaction; Mitral cell; Neonate;

Cell enlargement; Cell-shrinkage (Panhuber, H.) **34**, 133

Extracellular calcium

Neocortex; Epileptiform activity; Extracellular potassium; Development (Hablitz, J.J.) **36**, 299

Extracellular matrix

Schwann cell; Myelination; Defined medium (Carey, D.J.) **32**, 95

Basement membrane; Laminin; Neurite; Regeneration; Axon (Davis, G.E.) **33**, 1

Astroglia; Endothelial cell; Glutamine synthetase (Grinspan, J.) **33**, 291

Astrocyte; Neurite outgrowth; Development; PC12 cells; In vitro (Wujek, J.R.) **34**, 87

Astrocyte; Blood-brain barrier; Brain capillary endothelium; Tight junction (Arthur, F.E.) **36**, 155

Extracellular potassium

Neocortex; Epileptiform activity; Extracellular calcium; Development (Hablitz, J.J.) **36**, 299

Exuberance

Plasticity; Corticorubral; Corticothalamic; Corticospinal (Leonard, C.T.) **32**, 15

Eyeball

Chick; Pecten; Neural implant; Optic ectum (Ehrlich, D.) **33**, 139

F

Fetal neurotransmitter

Serotonin; Serotonin₁ receptor; Developmental signal; *p*-Chlorophenylalanine; 5-Methoxytryptamine (Whitaker-Azmitia, P.M.) **33**, 285

Fetal rat brain

Mitosis; Orientation (Zamenhof, S.) **31**, 143

Dissociated cell; Serum-free culture; Cell-cycle analysis; Synchronized brain cell; Thymidine labelling; Birth dating (Ahmed, Z.) **37**, 77

Fetal/perinatal brain development

Glutamic acid decarboxylase (GAD); γ -Aminobutyric acid (GABA); Basal ganglion; Synaptic inhibition; Neuronal morphogenesis; Transmitter/metabolic enzyme differentiation; Immunohistochemistry; Correlative light and electron microscopy (Fisher, R.) **33**, 215

Fetus

Primate; Brain; Androgen; Receptor (Pomerantz, S.M.) **36**, 151

Fiber hyperplasia

Muscle development; Polyneuronal innervation; Synapse elimination; Topographical projection; Toad (Malik, R.) **34**, 173

Fibronectin

Collagen type IV; Heparan sulfate proteoglycan; Laminin; Mouse embryo; Neurulation (O'Shea, K.) **37**, 11

Forebrain

Midline thalamic nucleus; Laterality; Development; Cell migration; Retrograde double labeling; Rat (Takada, M.) **35**, 275

Frog

Development; Olfactory epithelium; Regeneration (Lidow, M.S.) **31**, 243

Frog motoneuron

Ectopic limb; Motor somatotomy (Harrison, P.H.) **36**, 89

Frontal cortex

Postnatal development; Hippocampus; Choline uptake; Acetylcholine synthesis (Kotas, A.M.) **35**, 175

Electroencephalographic power spectrum; Electroencephalographic ontogeny; Hippocampus; Bioelectric brain development; Brain development; Vigilance state; θ -Rhythm (Bronzino, J.) **35**, 257

G

GABA_A receptor

GABA_B receptor; Benzodiazepine receptor; Serotonin; Dorsal raphe nucleus; Receptor development (Smith, D.) **35**, 191

GABA_B receptor

GABA_A receptor; Benzodiazepine receptor; Serotonin; Dorsal raphe nucleus; Receptor development (Smith, D.) **35**, 191

GAD immunohistochemistry

Postnatal development; Transient neuronal type; White matter (Wahle, P.) **36**, 53

Galactoside

Brain; Development; Glycoconjugate; Lectin; Mouse (Joubert, R.) **36**, 146

Ganglion cell

Neural retina; Axon elongation; Optic lobe; Chick embryo; Neurotrophic factor (Carri, N.) **31**, 83

Somatostatin; Development; Retina;

Amacrine cell (Ferriero, D.M.) **34**, 207

Antibody; Development; Vision; α -Cell; Y-cell; Retina; Lateral geniculate nucleus (McCall, M.A.) **34**, 223

Ganglion cell loss

Axon elimination; Axonal collateral; Binocular competition (Robinson, S.) **35**, 161

Gizzard smooth muscle

Neurite outgrowth factor; Monoclonal antibody; Ciliary ganglion (Hayashi, Y.) **35**, 11

Glia

Carbonic anhydrase; Development; Oligodendrocyte; Optic nerve; Myelination; PH (Davis, P.K.) **31**, 291

Reeler mutant mouse; Cortical barrel; Thalamic barreloid; Lectin; Glycoconjugate; Glial fibrillary acidic protein (GFAP) (O'Brien, T.F.) **32**, 309

Glia maturation factor

Glial growth inhibitory factor; Neuroblastoma; Differentiation; Proliferation; Glioblast (Kato, T.) **33**, 153

Glial cell

Oligodendrocyte; Hydrocortisone; Serum-free culture; Rat brain (Warringa, R.A.J.) **34**, 79

Spinal cord; Human development; S-100 protein; Immunohistochemistry (Lauriola, L.) **37**, 251

Glial fibrillary acidic protein

Neuroglia; Brain development; Glutamine synthetase; S-100; Carbonic anhydrase; Cell interactions; Cell culture (Linser, P.J.) **31**, 277

Reeler mutant mouse; Cortical barrel; Thalamic barreloid; Lectin; Glycoconjugate; Glia (O'Brien, T.F.) **32**, 309

Astrocyte; Radial glia; Arcuate nucleus; Hypothalamus; Development; Immunocytochemistry (Suarez, I.) **37**, 89

Immunocytochemistry; Rodent central nervous system; Radial glia; Subpial astrocyte; Antineurofilament antibody; Glial palisade; Central nervous system development (Bitner, C.) **37**, 167

Glial fibrillary acidic protein immunocytochemistry

Tritiated fucose incorporation; Autoradiography; Lectin binding; Central nervous system hidden boundary; Pattern formation molecule (Steindler, D.A.) **36**, 27

Glial fibrillary acidic protein staining

Radial glia; Olfactory bulb (Hajós, F.) **36**, 131

Glial filament protein

Optic nerve; Chiasm; Tract; Astroglial

maturation (Bovolenta, P.) **33**, 113

Glial growth inhibitory factor

Glia maturation factor; Neuroblastoma; Differentiation; Proliferation; Glioblast (Kato, T.) **33**, 153

Glial palisade

Immunocytochemistry; Rodent central nervous system; Radial glia; Subpial astrocyte; Glial fibrillary acid protein; Antineurofilament antibody; Central nervous system development (Bitner, C.) **37**, 167

Glioblast

Glial growth inhibitory factor; Glia maturation factor; Neuroblastoma; Differentiation; Proliferation (Kato, T.) **33**, 153

Glucocorticoid

Phenylethanolamine
N-methyltransferase; Catecholamine; Tyrosine hydroxylase; Neurotransmitter development; Neuronal cell culture; Neuronal differentiation (Bohn, M.C.) **37**, 257

Glucocorticoid receptor

Activation; Cerebral hemisphere; Age (Sharma, R.) **36**, 285

Glucose

Energy metabolism; Amino acid; Developing rat brain; Thyroid hormone; Phenobarbital; Barbiturate; Chronic treatment (Pereira de Vasconcelos, A.) **36**, 219

Glucose metabolism

Binocular deprivation; Dark rearing (Toga, A.W.) **37**, 209

Glutamate

Cerebellum; *N*-Methyl-D-aspartate; Kainate; Quisqualate; Postnatal development; Purkinje cell; Granule cell (Garthwaite, G.) **36**, 288

Glutamate receptor

α_1 -Receptor; Muscarinic receptor (Gonzales, R.A.) **37**, 59

Glutamic acid

Perinatal; Hypoxia-ischemia; Autoradiography; Dentate gyrus (Silverstein, F.S.) **34**, 33

Glutamic acid decarboxylase

Quail; Neuroretina; Photoreceptor; γ -Aminobutyric acid (GABA); Immunoreactivity (Pessac, B.) **31**, 156

Tyrosine hydroxylase; Choline acetyltransferase; Somatostatin; Substance P; Cerebellum; Primate; Ontogeny (Hayashi, M.) **32**, 181

Microphthalmia; Optic nerve; Lateral geniculate nucleus; Lamination; Interlaminar zone; Horseradish peroxidase (Robson, J.) **33**, 81

γ -Aminobutyric acid (GABA); Basal ganglion; Synaptic inhibition; Neuronal morphogenesis; Transmitter/metabolic

enzyme differentiation; Fetal/perinatal brain development; Immunohistochemistry; Correlative light and electron microscopy (Fisher, R.) **33**, 215

Prepyriform cortex; Development; Immunocytochemistry; Cholecystokinin; Neurotransmitter (Westenbroek, R.) **34**, 191

Sexual maturation; Age; γ -Aminobutyric acid; Hypothalamus; Rat (Sternberg, H.) **34**, 316

Glutamine synthetase

Chick neuron; Astrocyte; Hydrocortisone; Energy metabolism (Tholey, G.) **31**, 73

Neuroglia; Brain development; S-100; Glial fibrillary acidic protein; Carbonic anhydrase; Cell interactions; Cell culture (Linsler, P.J.) **31**, 277

Astroglia; Endothelial cell; Extracellular matrix (Grinspan, J.) **33**, 291

Glycine-accumulating cell

Rat retina; Reaggregate culture; Selective localization (Akagawa, K.) **31**, 124

Glycoconjugate

Reeler mutant mouse; Cortical barrel; Thalamic barreloid; Lectin; Glial fibrillary acidic protein (GFAP); Glia (O'Brien, T.F.) **32**, 309

Brain; Development; Galactoside; Lectin; Mouse (Joubert, R.) **36**, 146

Glycoprotein synthesis

Dolichyl phosphate; Dolichol kinase; Brain development (Volpe, J.J.) **31**, 193

Dolichyl phosphate; UDP-*N*-acetylglucosamine; Glycosyltransferase; Developing brain (Volpe, J.J.) **33**, 277

Glycosyltransferase

Dolichyl phosphate; UDP-*N*-acetylglucosamine; Glycoprotein synthesis; Developing brain (Volpe, J.J.) **33**, 277

Goldfish

Regeneration; Topography; Optic fiber; Tectum; Marker; Electrophysiology (Meyer, R.L.) **31**, 312

Optic fiber; Tectum; Tetrodotoxin; Topography; Activity; Pathway; Regeneration (Meyer, R.L.) **37**, 115

Golgi cell

High-affinity GABA_A receptor; Granule cell; Purkinje cell; Development; Autoradiography (Frostholt, A.) **37**, 157

Gonadotrophe

Immunohistochemistry; Progesterone receptor; Hypothalamus; Pituitary; Chick embryo (Guennoun, R.) **37**, 1

Granule cell

Differentiation; Excitatory amino acid; Cerebellar neuron; Guanylate cyclase; Cyclic guanosine monophosphate; Ca²⁺ (Novelli, A.) **34**, 307

Cerebellum; Glutamate; *N*-Methyl-D-aspartate; Kainate; Quisqualate; Postnatal development; Purkinje cell (Garthwaite, G.) **36**, 288

High-affinity GABA_A receptor; Purkinje cell; Golgi cell; Development; Autoradiography (Frostholt, A.) **37**, 157

Granule cell development

Olfactory bulb development; Synaptic inhibition; Inhibition development; Synaptic facilitation; Paired-pulse effect (Wilson, D.) **33**, 134

Granule neuron

Neuronal tissue culture; Rat brain; Non-granule neuron; Mossy fiber; N2 medium; Immunocytochemistry (Boss, B.D.) **36**, 199

Granuloprival cerebellar culture

Cerebellar explant; Purkinje cell; Neuronal rescue; Target field (Seil, F.J.) **35**, 312

Growing axon

Antitubulin; Cold-stable microtubule; Differentiating nervous system; Rodent (Cohen, E.) **36**, 171

Growth cone

Nerve growth factor; Sympathetic neuron; Cell culture; Nerve fiber sprouting; Nerve fiber regeneration (Campenot, R.B.) **37**, 293

Growth factor

Maturation factor; Monoclonal antibody; Astrocyte (Lim, R.) **33**, 49

Maturation factor; Monoclonal antibody; Astrocyte; Bergmann glia (Lim, R.) **33**, 93

Purified motoneuron; Schwann cell (Hill, M.A.) **33**, 243

Guanylate cyclase

Differentiation; Excitatory amino acid; Cerebellar neuron; Granule cell; Cyclic guanosine monophosphate; Ca²⁺ (Novelli, A.) **34**, 307

5'-Guanylylimidodiphosphate

Development; Adenosine; *N*-Protein; Cyclohexyladenosine (Morgan, P.F.) **35**, 269

Guinea pig

α_1 -Receptor; Norepinephrine; Preoptic area; Hypothalamus; Cortex; 6-Hydroxydopamine; Prazosin (Johnson, A.E.) **32**, 67

H

Haloperidol

Dopaminergic system; Striatum development (Iñiguez, C.) **35**, 27

Ontogenesis; Luteinizing hormone; Prolactin; Sex difference; Brain organization (Lacau de Mengido, I.) **35**, 91

Hamster

Corpus callosum; Retrograde tracing; Optic radiation lesion (Rhoades, R.W.) **32**, 217

Neurogenetic gradient; Lateral geniculate nucleus; Suprachiasmatic nucleus; Superior colliculus; Morphometry; Visual system (Crossland, W.) **36**, 314

[³H]Hemicholinium binding

Basal ganglion; Choline uptake system; Baboon striatum; Development (Lowenstein, P.) **34**, 291

Heparan sulfate proteoglycan

Collagen type IV; Fibronectin; Laminin; Mouse embryo; Neurulation (O'Shea, K.) **37**, 11

High-affinity GABA_A receptor

Granule cell; Purkinje cell; Golgi cell; Development; Autoradiography (Frostholt, A.) **37**, 157

Hippocampal theta

Cerebral cortical ontogeny; Environmental effect on brain development; Cingulate EEG power spectrum; Olfactory bulb EEG development; Limbic system EEG ontogeny; EEG plasticity in undernutrition; Brain growth spurt EEG (Rajanna, B.) **37**, 97

Hippocampus

Dentate gyrus; Septum; Development; Acetylcholine; Sex dimorphism (Loy, R.) **34**, 156

Postnatal development; Frontal cortex; Choline uptake; Acetylcholine synthesis (Kotas, A.M.) **35**, 175

Electroencephalographic power spectrum; Electroencephalographic ontogeny; Frontal cortex; Bioelectric brain development; Brain development; Vigilance state; θ -Rhythm (Bronzino, J.) **35**, 257

Seizure; Epilepsy; Kindling; Amygdala (Holmes, G.L.) **36**, 281

Hippocampus primary culture

Ontogeny; Muscarinic receptor; Binding (Fernandez-Tomé, P.) **35**, 158

Histone

Retina; Brain; Development; Mouse; Nucleus (Perkins, P.) **33**, 161

Horseradish peroxidase

Occipital cortex; Tectum; Transplantation; Layer V; Pyramidal cell; Connectional selectivity (Sharkey, M.A.) **31**, 119

Microphthalmia; Optic nerve; Lateral geniculate nucleus; Lamination; Interlaminar zone; Glutamic acid decarboxylase (Robson, J.) **33**, 81

Lamination; Projection column; Lateral geniculate nucleus; Soma size (Condo, G.) **35**, 148

Human development

Glial cell; Spinal cord; S-100 protein; Immunohistochemistry (Lauriola, L.) **37**, 251

Human fetal hypothalamus

Corticoliberin neuron; Ovine corticotropin-releasing factor; Rat corticotropin-releasing factor; Development; Immunocytochemistry (Bresson, J.-L.) **32**, 241

Human fetus spinal cord

Somatostatin ontogeny; Immunofluorescence (Charnay, Y.) **36**, 63

Hydrocortisone

Glutamine synthetase; Chick neuron; Astrocyte; Energy metabolism (Tholey, G.) **31**, 73

Oligodendrocyte; Serum-free culture; Glial cell; Rat brain (Warringa, R.A.J.) **34**, 79

6-Hydroxydopamine

Visual cortex; Monocular deprivation; Norepinephrine; Plasticity (Allen, E.) **32**, 53

Guinea pig; α_1 -Receptor; Norepinephrine; Preoptic area; Hypothalamus; Cortex; Prazosin (Johnson, A.E.) **32**, 67

Sprouting; Serotonin; Development; Raphe-cortical projection; Cerebral cortex; Raphe nuclei (Blue, M.E.) **32**, 255

Retinal growth; Dopaminergic cell; Wholemout; Radial section; [³H]Thymidine (Negishi, K.) **33**, 67

Dopamine; Transplant; Neonatal plasticity; Stress; Turning (Carder, R.K.) **33**, 315

Hyperinnervation

Neonatal 6-hydroxydopamine; Dopamine- β -hydroxylase; Immunohistochemistry; Cortex; Thalamus; Pruning effect (Gustafson, E.L.) **37**, 143

Hypoglycemia

Sympatho-adrenal development; Catecholamine secretion in neonate (Lau, C.) **36**, 277

Hypothalamic slice

Circadian rhythm; Suprachiasmatic nucleus; Neuronal activity; Calcium

(Shibata, S.) **34**, 311

Hypothalamus

Suprachiasmatic nucleus; Immunohistochemistry; Vasopressin; Vasoactive intestinal polypeptide; Brain transplant; Neural development (Roberts, M.H.) **32**, 59

Guinea pig; α_1 -Receptor; Norepinephrine; Preoptic area; Cortex; 6-Hydroxydopamine, Prazosin (Johnson, A.E.) **32**, 67

Glutamic acid decarboxylase; Sexual maturation; Age; γ -Aminobutyric acid; Rat (Sternberg, H.) **34**, 316

Immunohistochemistry; Progesterone receptor; Pituitary; Gonadotropin; Chick embryo (Guenoun, R.) **37**, 1

Astrocyte; Radial glia; Glial fibrillary acidic protein; Arcuate nucleus; Development; Immunocytochemistry (Suarez, I.) **37**, 89

Hypothalamus-preoptic area

Sex differentiation; Aromatase; Androgen; Estrogen; Transplant; Testosterone (Paden, C.M.) **33**, 127

Hypothyroidism

Olfaction; Thyroxine; Mouse (Beard, M.) **36**, 181

Hypoxia-ischemia

Perinatal; Autoradiography; Glutamic acid; Dentate gyrus (Silverstein, F.S.) **34**, 33

Choline acetyltransferase; Caudate-putamen; Nucleus basalis; Striatum; Cholinergic neuron (Johnston, M.V.) **34**, 41

I

Immunocytochemistry

Retina; Cell culture; Leu-enkephalin; Development (Fukuda, M.) **31**, 147

Vestibular system; Organ culture; Neuron-specific enolase; Mouse embryo otocyst (Raymond, J.) **31**, 299

Corticoliberin neuron; Ovine corticotropin-releasing factor; Rat corticotropin-releasing factor; Human fetal hypothalamus; Development (Bresson, J.-L.) **32**, 241

MAP-2; Tau; Microtubule; Neuronal development (Ferreira, A.) **34**, 9

Prepyriform cortex; Development; Cholecystokinin; Glutamic acid decarboxylase; Neurotransmitter (Westenbroek, R.) **34**, 191

Autoradiography; Oligodendrocyte;

Astrocyte; Neuron;
 γ -[^3H]Aminobutyric acid;
 D -[^3H]Aspartate; Tissue culture
 (Reynolds, R.) **36**, 1

Oligodendrocyte; Astrocyte;
 Autoradiography; [^3H] γ -Aminobutyric
 acid; D -[^3H]Aspartate; Central nervous
 system culture; Serum-free medium
 (Reynolds, R.) **36**, 13

Neuronal tissue culture; Rat brain;
 Granule neuron; Non-granule neuron;
 Mossy fiber; N2 medium (Boss, B.D.)
36, 199

Development; Choline
 acetyltransferase; Rat; Septal/diagonal
 band (Armstrong, D.M.) **36**, 249

Astrocyte; Radial glia; Glial fibrillary
 acidic protein; Arcuate nucleus;
 Hypothalamus; Development
 (Suarez, I.) **37**, 89

Rodent central nervous system; Radial
 glia; Subpial astrocyte; Glial fibrillary
 acid protein; Antineurofilament
 antibody; Glial palisade; Central
 nervous system development
 (Bitner, C.) **37**, 167

Transferrin; Iron; Developing retina;
 Chick (Zeevalk, G.D.) **37**, 231

Acetylcholine; Non-pyramidal neuron;
 Cerebral cortex (Hendry, S.H.C.)
37, 313

Immunofluorescence
 Schwann cell; Lipid antigen;
 Monoclonal antibody; Development;
 Peripheral nerve; Myelin
 (Eccleston, P.A.) **35**, 249

Somatostatin ontogeny; Human fetus
 spinal cord (Charnay, Y.) **36**, 63

Cerebellar granule cell; In vitro;
 Development; Cytoskeleton; Neurite
 outgrowth (Cambray-Deakin, M.)
37, 197

Immunohistochemistry
 Adenosine deaminase; Adenosine;
 Ontogenesis; Rat brain; Purinergic
 neurotransmission; Purine metabolism
 (Senba, E.) **31**, 59

Suprachiasmatic nucleus; Vasopressin;
 Vasoactive intestinal polypeptide; Brain
 transplant; Hypothalamus; Neural
 development (Roberts, M.H.) **32**, 59

Glutamic acid decarboxylase (GAD);
 γ -Aminobutyric acid (GABA); Basal
 ganglion; Synaptic inhibition; Neuronal
 morphogenesis; Transmitter/metabolic
 enzyme differentiation; Fetal/perinatal
 brain development; Correlative light
 and electron microscopy (Fisher, R.)
33, 215

Ependyma; Antigenicity; Tissue
 culture; Cerebral cortex; Cilia;
 Developmental morphology; Rat
 (Jordan, F.) **35**, 97

Myelination; Myelin basic protein;

Peroxidase-antiperoxidase method;
 Brainstem; Rat (Rozeik, C.) **35**, 183

Progesterone receptor; Hypothalamus;
 Pituitary; Gonadotrophe; Chick
 embryo (Guenoun, R.) **37**, 1

Neonatal 6-hydroxydopamine;
 Dopamine- β -hydroxylase; Cortex;
 Thalamus; Hyperinnervation; Pruning
 effect (Gustafson, E.L.) **37**, 143

Glial cell; Spinal cord; Human
 development; S-100 protein
 (Lauriola, L.) **37**, 251

Immunoreactivity
 Quail; Neuroretina; Photoreceptor;
 Glutamic acid decarboxylase (GAD);
 γ -Aminobutyric acid (GABA)
 (Pessac, B.) **31**, 156

Imprinting
 Auditory system; Bird;
 2-Deoxyglucose; Sensitive phase
 (Maier, V.) **31**, 15

Learning; Auditory system; Bird;
 2-Deoxyglucose; Dendritic spine
 (Wallhäusser, E.) **31**, 29

In vitro
 Synaptogenesis; Plasticity; Critical
 period; Cerebral cortex (Van
 Huizen, F.) **31**, 1

Astrocyte; Extracellular matrix;
 Neurite outgrowth; Development;
 PC12 cells (Wujek, J.R.) **34**, 87

Cerebellar granule cell; Development;
 Cytoskeleton; Neurite outgrowth;
 Immunofluorescence
 (Cambray-Deakin, M.) **37**, 197

In vivo assay
 Visual system; Rat; Trophic factor;
 Dorsal lateral geniculate nucleus;
 Cerebral cortex lesion
 (Cunningham, T.J.) **37**, 133

Infant lesion effect
 Sensorimotor cortex; Placing; Sparing
 and recovery of function; Development
 (Leonard, C.T.) **32**, 1

Infraorbital nerve
 Rat; Regeneration; Cell death;
 Transganglionic reorganization
 (Chiaia, N.L.) **36**, 75

Inhibition development
 Olfactory bulb development; Synaptic
 inhibition; Granule cell development;
 Synaptic facilitation; Paired-pulse effect
 (Wilson, D.) **33**, 134

Insulin
 Astrocyte; Proliferation; Phorbol ester;
 Amiloride; Cell culture (Murphy, S.)
31, 133

**Interaction between humoral
 factors**
 Thyroid hormone; Nerve growth factor;
 Subcortical cholinergic neuron;
 Regulation of choline acetyltransferase;
 Acetylcholinesterase;
 3,3',5-Triiodo-L-thyronine; Cholinergic

cell culture (Hayashi, M.) **36**, 109

Interlaminar zone
 Microphthalmia; Optic nerve; Lateral
 geniculate nucleus; Lamination;
 Glutamic acid decarboxylase;
 Horseradish peroxidase (Robson, J.)
33, 81

Internodal length
 Rat sciatic nerve; Development; Crush
 lesion; Regeneration; Myelin sheath;
 Remodelling; Light microscopy
 (Hildebrand, C.) **32**, 147

Intracerebral transplant
 Testosterone; Medial preoptic area;
 Neuronotrophic agent; Cell death;
 Sexually dimorphic (Arendash, G.W.)
34, 69

Intraocular
 Transplant; Noradrenergic; Delayed
 innervation; Spinal cord graft
 (Henschen, A.) **36**, 237

Intraocular transplant
 Compartment; Striatum
 (Johnston, J.G.) **33**, 310

Ionic channel
 Axonal maturation; Development;
 Regeneration; Myelination (Bowe, C.)
34, 123

Iontophoresis
 Locus coeruleus; Development;
 Noradrenaline; α_2 -Adrenoceptor;
 Autoinhibition; Negative feedback;
 Piperoxane (Kimura, F.) **35**, 21

Iris
 Sympathetic neuron; Axon extension;
 Retrograde labeling (Vidovic, M.)
32, 133

Iron
 Transferrin; Developing retina; Chick;
 Immunocytochemistry (Zeevalk, G.D.)
37, 231

J

Jimmy mouse
 Oligodendroglia; Cell cycle; Myelin
 (Knapp, P.E.) **35**, 301

K

Kainate
 Cerebellum; Glutamate;

N-Methyl-D-aspartate; Quisqualate;
Postnatal development; Purkinje cell;
Granule cell (Garthwaite, G.) **36**, 288

Ketocyclazocine, μ opioid receptor
Opiate; Morphine; κ opioid receptor;
Analgesia; Ontogeny (Giordano, J.)
32, 247

Ketone body
Energy metabolism; Amino acid;
Developing rat brain; Phenobarbital;
Barbiturate; Chronic treatment
(Pereira de Vasconcelos, A.) **36**, 231

Kindling
Seizure; Epilepsy; Hippocampus;
Amygdala (Holmes, G.L.) **36**, 281

Kitten
Auditory cortex; Cochlear damage;
Microelectrode mapping (Reale, R.A.)
34, 281

L

Lamination
Microphthalmia; Optic nerve; Lateral
geniculate nucleus; Interlaminar zone;
Glutamic acid decarboxylase;
Horseradish peroxidase (Robson, J.)
33, 81

Projection column; Horseradish
peroxidase; Lateral geniculate nucleus;
Soma size (Condo, G.) **35**, 148

Laminin
Basement membrane; Neurite;
Regeneration; Axon; Extracellular
matrix (Davis, G.E.) **33**, 1

NG108-15 cell; Neurite;
Cycloheximide; Calmodulin antagonist;
Phorbol ester (Smalheiser, N.) **34**, 111

Axon guidance; Spinal cord; Neonatal
rat (Schreyer, D.) **35**, 291

Collagen type IV; Fibronectin;
Heparan sulfate proteoglycan; Mouse
embryo; Neurulation (O'Shea, K.)
37, 11

Lateral and dorsal terminal nuclei
Accessory optic system; Monocular
deprivation; Direction and velocity
selectivity; Ocular dominance; Cat
(Grasse, K.L.) **31**, 229

Lateral geniculate nucleus
Enucleation; Primate (Sloper, J.)
31, 259

Visual deprivation; Primate; Monocular
segment (Sloper, J.) **31**, 267

Microphthalmia; Optic nerve;
Lamination; Interlaminar zone;
Glutamic acid decarboxylase;
Horseradish peroxidase (Robson, J.)

33, 81

Antibody; Development; Vision;
Ganglion cell; α -Cell; Y-cell; Retina
(McCall, M.A.) **34**, 223

Lamination; Projection column;
Horseradish peroxidase; Soma size
(Condo, G.) **35**, 148

C lamina; Development; Plasticity;
Monocular deprivation
(Murakami, D.M.) **35**, 215

Development; Cytochrome oxidase;
Visual system (Murakami, D.M.)
35, 225

Neurogenetic gradient; Hamster;
Suprachiasmatic nucleus; Superior
colliculus; Morphometry; Visual system
(Crossland, W.) **36**, 314

Laterality
Midline thalamic nucleus; Forebrain;
Development; Cell migration;
Retrograde double labeling; Rat
(Takada, M.) **35**, 275

Layer V
Occipital cortex; Tectum;
Transplantation; Horseradish
peroxidase; Pyramidal cell;
Connectional selectivity
(Sharkey, M.A.) **31**, 119

Learning
Imprinting; Auditory system; Bird;
2-Deoxyglucose; Dendritic spine
(Wallhäusser, E.) **31**, 29

Chick; Synapse; Protein synthesis
inhibition (Bradley, P.) **37**, 267

Lectin
Reeler mutant mouse; Cortical barrel;
Thalamic barreloid; Glycoconjugate;
Glial fibrillary acidic protein (GFAP);
Glia (O'Brien, T.F.) **32**, 309

Brain; Development; Galactoside;
Glycoconjugate; Mouse (Joubert, R.)
36, 146

Lectin binding
Tritiated fucose incorporation;
Autoradiography; Glial fibrillary acidic
protein immunocytochemistry; Central
nervous system hidden boundary;
Pattern formation molecule
(Steindler, D.A.) **36**, 27

Lesion conditioning
Retinal transplantation; Donor age
(Blair, J.R.) **36**, 257

Leu-enkephalin
Retina; Cell culture;
Immunocytochemistry; Development
(Fukuda, M.) **31**, 147

Light microscopy
Rat sciatic nerve; Development; Crush
lesion; Regeneration; Myelin sheath;
Internodal length; Remodelling
(Hildebrand, C.) **32**, 147

Limbic system EEG ontogeny
Cerebral cortical ontogeny;
Environmental effect on brain

development; Cingulate EEG power
spectrum; Hippocampal theta;
Olfactory bulb EEG development;
EEG plasticity in undernutrition; Brain
growth spurt EEG (Rajanna, B.)
37, 97

Lipid antigen
Schwann cell; Immunofluorescence;
Monoclonal antibody; Development;
Peripheral nerve; Myelin
(Eccleston, P.A.) **35**, 249

Lobster
Development; Nerve root; Sensory
axon; Asymmetry (Govind, C.) **35**, 131

Locus coeruleus
Development; Noradrenaline;
 α_2 -Adrenoceptor; Autoinhibition;
Negative feedback; Iontophoresis;
Piperoxane (Kimura, F.) **35**, 21

Lumbosacral spinal cord
Development; Ventrolateral dendrite
bundle; Onuf's nucleus; Rat; Pudendal
innervation; Quantitative Golgi study
(Bellinger, D.L.) **35**, 55

Development; Ventromedial dendrite
bundle; Quantitative Golgi study; Rat;
Pudendal innervation (Bellinger, D.L.)
35, 69

Luteinizing hormone
Ontogenesis; Prolactin; Haloperidol;
Sex difference; Brain organization
(Lacau de Mengido, I.) **35**, 91

M

Main olfactory bulb
Accessory olfactory bulb; Brain
development; Rat; Olfactory pathway
(Rosselli-Austin, L.) **36**, 304

Major dense line
Myelin deficient (*mld*) mutant mouse;
Shiverer (*shi*) mutant mouse; Myelin
basic protein (MBP); 2',3'-Cyclic
nucleotide 3'-phosphodiesterase
(CNase); Myelin (Mikoshiha, K.)
35, 111

MAP-2
Tau; Microtubule; Neuronal
development; Immunocytochemistry
(Ferreira, A.) **34**, 9

Mapping
Somatosensory cortex; Reorganization;
Age-dependence (McKinley, P.A.)
31, 136

Marker
Regeneration; Topography; Optic fiber;
Tectum; Goldfish; Electrophysiology
(Meyer, R.L.) **31**, 312

Maturation

Pilocarpine; Seizure; Brain damage;
Development; Rat (Cavalheiro, E.A.)
37, 43

Maturation factor

Growth factor; Monoclonal antibody;
Astrocyte (Lim, R.) **33, 49**

Growth factor; Monoclonal antibody;
Astrocyte; Bergmann glia (Lim, R.)
33, 93

Maximum binding capacity

Membrane suspension of rat brain;
Postnatal development; Opioid binding
site; μ -, δ - and β -Sites; Binding affinity
(Petrillo, P.) **31, 53**

Medial preoptic area

Testosterone; Intracerebral transplant;
Neuronotrophic agent; Cell death;
Sexually dimorphic (Arendash, G.W.)
34, 69

Membrane property

Sensory neuron; Afterhyperpolarizing
potential (HAP); Down syndrome;
Mouse; Trisomy 16; Action potential;
Tissue culture (Orozco, C.B.) **32, 111**

Membrane suspension of rat brain

Postnatal development; Opioid binding
site; μ -, δ - and β -Sites; Maximum
binding capacity; Binding affinity
(Petrillo, P.) **31, 53**

Metabolic development

Olfactory bulb; Development; Sensory
deprivation; Sensory system
(Cullinan, W.E.) **35, 35**

Methamphetamine

Neurotoxicity; Reaggregate cell
culture; Dopamine neuron (Kontur, P.)
31, 7

5-Methoxytryptamine

Serotonin; Serotonin₁ receptor;
Developmental signal; Fetal
neurotransmitter;
p-Chlorophenylalanine
(Whitaker-Azmitia, P.M.) **33, 285**

Methylazoxymethanol acetate

Microcephaly; Micrencephaly; Rat;
Occipital cortex; Cytochrome oxidase
histochemistry (Ashwell, K.W.S.)
33, 301

Target dependence; Microcephaly;
Micrencephaly; Rat (Ashwell, K.)
35, 199

N-Methyl-D-aspartate

Cerebellum; Glutamate; Kainate;
Quisqualate; Postnatal development;
Purkinje cell; Granule cell
(Garthwaite, G.) **36, 288**

Micrencephaly

Methylazoxymethanol acetate;
Microcephaly; Rat; Occipital cortex;
Cytochrome oxidase histochemistry
(Ashwell, K.W.S.) **33, 301**

Methylazoxymethanol acetate; Target
dependence; Microcephaly; Rat
(Ashwell, K.) **35, 199**

Microcephaly

Methylazoxymethanol acetate;
Micrencephaly; Rat; Occipital cortex;
Cytochrome oxidase histochemistry
(Ashwell, K.W.S.) **33, 301**

Methylazoxymethanol acetate; Target
dependence; Micrencephaly; Rat
(Ashwell, K.) **35, 199**

Microelectrode mapping

Kitten; Auditory cortex; Cochlear
damage (Reale, R.A.) **34, 281**

Microphthalmia

Optic nerve; Lateral geniculate
nucleus; Lamination; Interlaminar
zone; Glutamic acid decarboxylase;
Horseradish peroxidase (Robson, J.)
33, 81

Microtubule

MAP-2; Tau; Neuronal development;
Immunocytochemistry (Ferreira, A.)
34, 9

Microtubule-associated protein

Synaptic vesicle; Cerebellar granule
cell; Cytoskeleton; Axon
(Cambray-Deakin, M.) **34, 1**

Midline thalamic nucleus

Forebrain; Laterality; Development;
Cell migration; Retrograde double
labeling; Rat (Takada, M.) **35, 275**

Mitogen

Plasminogen activator; Peripheral
nervous system; Schwann cell;
Urokinase; Tissue type PA;
Plasminogen activator inhibitor;
Neuro-ontogenesis (Baron-Van
Evercooren, A.) **36, 101**

Mitosis

Orientation; Fetal rat brain
(Zamenhof, S.) **31, 143**

Retina; Cell death; Regulation; Rat
(Beazley, L.) **33, 169**

Mitral cell

Olfaction; Exposure; Adult rat; Cell
shrinkage (Panhuber, H.) **31, 307**

Odor; Olfaction; Exposure; Neonate;
Cell enlargement; Cell-shrinkage
(Panhuber, H.) **34, 133**

Monkey

Visual deprivation; Brodmann's area 7;
Blindness; Plasticity; Recovery
(Carlson, S.) **33, 101**

Postnatal development; Subthalamic
nucleus; Basal ganglia system;
Stereology; Synapse elimination
(Fisher, J.E.) **36, 39**

Monoamine oxidase

Serotonin; Serotonin binding protein;
Serotonergic marker; Rat brain;
Tryptophan hydroxylase;
Developmental regulation (Liu, K.)
32, 31

Monoclonal antibody

Maturation factor; Growth factor;
Astrocyte (Lim, R.) **33, 49**

Maturation factor; Growth factor;
Astrocyte; Bergmann glia (Lim, R.)
33, 93

Neurite outgrowth factor; Ciliary
ganglion; Gizzard smooth muscle
(Hayashi, Y.) **35, 11**

Schwann cell; Lipid antigen;
Immunofluorescence; Development;
Peripheral nerve; Myelin
(Eccleston, P.A.) **35, 249**

Monocular deprivation

Accessory optic system; Lateral and
dorsal terminal nuclei; Direction and
velocity selectivity; Ocular dominance;
Cat (Grasse, K.L.) **31, 229**

Visual cortex; Norepinephrine;
6-Hydroxydopamine; Plasticity
(Allen, E.) **32, 53**

Visual cortex deafferentation; Optic
tract; Orientation selectivity; Direction
selectivity; Receptive field area; Corpus
callosum; Acute cat; Chronic cat
(Yinon, U.) **33, 205**

Antibody; Ocular dominance; Vision;
Striate cortex; Y-cell; Binocular
competition (McCall, M.A.) **34, 235**

Lateral geniculate nucleus; C lamina;
Development; Plasticity
(Murakami, D.M.) **35, 215**

Monocular segment

Visual deprivation; Lateral geniculate
nucleus; Primate (Sloper, J.) **31, 267**

Morphine

Brain; DNA synthesis; Naloxone;
Naltrexone; Ontogeny; Opiate;
[³H]Thymidine (Kornblum, H.I.)
31, 45

Morphine

Opiate; Ketocyclazocine, μ opioid
receptor; κ opioid receptor; Analgesia;
Ontogeny (Giordano, J.) **32, 247**

Morphological differentiation

Neurite extension factor; S100 protein;
Neuroblastoma cell; Defined medium;
Bioassay (Kligman, D.) **33, 296**

Morphometry

Neurogenetic gradient; Hamster;
Lateral geniculate nucleus;
Suprachiasmatic nucleus; Superior
colliculus; Visual system
(Crossland, W.) **36, 314**

Mossy fiber

Neuronal tissue culture; Rat brain;
Granule neuron; Non-granule neuron;
N2 medium; Immunocytochemistry
(Boss, B.D.) **36, 199**

Motoneuron

Development; Skeletal muscle; Nerve
crush (Lowrie, M.) **31, 91**

Dorsal root ganglion; Survival; Neurite
regeneration; Age dependency
(Nichol, K.) **32, 85**

Spinal cord; Cell death; Chick embryo
(Williams, C.) **34, 215**

Postnatal development; Synapse elimination; Spinal cord; Ultrastructure; Cat (Arvidsson, U.) **37**, 303

Motor activity

Spinal cord; Chick embryo; Excitatory amino acid; Development (Barry, M.A.J.) **36**, 271

Motor somatotopy

Ectopic limb; Frog motoneuron (Harrison, P.H.) **36**, 89

Mouse

Sensory neuron; Afterhyperpolarizing potential (HAP); Down syndrome; Trisomy 16; Action potential; Tissue culture; Membrane property (Orozco, C.B.) **32**, 111

Retina; Brain; Development; Histone; Nucleus (Perkins, P.) **33**, 161

Acetylcholine (ACh); Postnatal brain development; Weaning (Sawa, A.) **34**, 151

Cortical development; Chimera; Cell lineage; Somatosensory barrel (Goldowitz, D.) **35**, 1

Brain; Peripheral tissue; Estradiol; Diabetes; Obesity (Garris, D.R.) **35**, 153

Brain; Development; Galactoside; Glycoconjugate; Lectin (Joubert, R.) **36**, 146

Olfaction; Hypothyroidism; Thyroxine (Beard, M.) **36**, 181

Olfactory epithelium; Olfactory receptor neuron; Thyroxine; Development (Mackay-Sim, A.) **36**, 190

Mouse brain development

Quantitative autoradiography; α -Scorpion toxin receptor; Na^+ channel (Martin-Moutot, N.) **32**, 43

Mouse embryo

Collagen type IV; Fibronectin; Heparan sulfate proteoglycan; Laminin; Neurulation (O'Shea, K.) **37**, 11

Mouse embryo otocyst

Vestibular system; Organ culture; Neuron-specific enolase; Immunocytochemistry (Raymond, J.) **31**, 299

Müller glia

RGC survival; Superior colliculus; Development (Armson, P.) **32**, 207

Multivariate analysis

Pyramidal neuron; Neonatal hypothyroidism; Ageing; Cerebral cortex (Ipiña, S.L.) **37**, 219

Muscarinic receptor

Neuroblastoma; Phorbol ester; Retinoic acid; Differentiation; Acetylcholinesterase; Choline acetyltransferase (Adem, A.) **33**, 235

Ontogeny; Hippocampus primary culture; Binding (Fernandez-Tomé, P.) **35**, 158

Glutamate receptor; α_1 -Receptor (Gonzales, R.A.) **37**, 59

Muscimol

Basal ganglion; Catecholamine; Seizure; Rat; Animal, newborn (Moshé, S.L.) **31**, 129

γ -Aminobutyric acid; Bicuculline; Seizure; Substantia nigra; Rat; Newborn (Sperber, E.F.) **37**, 243

Muscle cell

Synaptogenesis; Retinal neuron; Cell culture (Puro, D.G.) **33**, 305

Muscle development

Fiber hyperplasia; Polyneuronal innervation; Synapse elimination; Topographical projection; Toad (Malik, R.) **34**, 173

Myelin

Myelin deficient (*mld*) mutant mouse; Shiverer (*shi*) mutant mouse; Major dense line; Myelin basic protein (MBP); 2',3'-Cyclic nucleotide 3'-phosphodiesterase (CNPase) (Mikoshiha, K.) **35**, 111

Schwann cell; Lipid antigen; Immunofluorescence; Monoclonal antibody; Development; Peripheral nerve (Eccleston, P.A.) **35**, 249

Oligodendroglia; Jimpy mouse; Cell cycle (Knapp, P.E.) **35**, 301

Myelin basic protein

Myelination; Immunohistochemistry; Peroxidase-antiperoxidase method; Brainstem; Rat (Rozeik, C.) **35**, 183

Myelin basic protein (MBP)

Myelin deficient (*mld*) mutant mouse; Shiverer (*shi*) mutant mouse; Major dense line; 2',3'-Cyclic nucleotide 3'-phosphodiesterase (CNPase); Myelin (Mikoshiha, K.) **35**, 111

Myelin deficient (*mld*) mutant mouse

Shiverer (*shi*) mutant mouse; Major dense line; Myelin basic protein (MBP); 2',3'-Cyclic nucleotide 3'-phosphodiesterase (CNPase); Myelin (Mikoshiha, K.) **35**, 111

Myelin sheath

Rat sciatic nerve; Development; Crush lesion; Regeneration; Internodal length; Remodelling; Light microscopy (Hildebrand, C.) **32**, 147

Myelination

Carbonic anhydrase; Development; Oligodendrocyte; Optic nerve; Glia; PH (Davis, P.K.) **31**, 291

Schwann cell; Extracellular matrix; Defined medium (Carey, D.J.) **32**, 95

Oligodendroglia; Spinal cord; Cortex; Aggregate culture; Perineuronal cell (Devon, R.M.) **32**, 289

Axonal maturation; Ionic channel; Development; Regeneration (Bowe, C.) **34**, 123

Myelin basic protein; Immunohistochemistry; Peroxidase-antiperoxidase method; Brainstem; Rat (Rozeik, C.) **35**, 183

N

N2 medium

Neuronal tissue culture; Rat brain; Granule neuron; Non-granule neuron; Mossy fiber; Immunocytochemistry (Boss, B.D.) **36**, 199

Na^+ channel

Mouse brain development; Quantitative autoradiography; α -Scorpion toxin receptor (Martin-Moutot, N.) **32**, 43

Na^+ , K^+ -ATPase

Cerebellum; Mg^{2+} -ATPase; Synaptosomal fraction; Estradiol benzoate; Neonatal estrogenization (Litteria, M.) **33**, 157

Naloxone

Brain; DNA synthesis; Morphine; Naltrexone; Ontogeny; Opiate; [^3H]Thymidine (Kornblum, H.I.) **31**, 45

Naltrexone

Brain; DNA synthesis; Morphine; Naloxone; Ontogeny; Opiate; [^3H]Thymidine (Kornblum, H.I.) **31**, 45

Negative feedback

Locus coeruleus; Development; Noradrenaline; α_2 -Adrenoceptor; Autoinhibition; Ionophoresis; Piperoxane (Kimura, F.) **35**, 21

Neocortex

Epileptogenesis; Developing Neuron; Cortical inhibition; Neurogenesis; Pyramidal Neuron (Kriegstein, A.) **34**, 161

Epileptiform activity; Extracellular potassium; Extracellular calcium; Development (Hablitz, J.J.) **36**, 299

Neonatal 6-hydroxydopamine

Dopamine- β -hydroxylase; Immunohistochemistry; Cortex; Thalamus; Hyperinnervation; Pruning effect (Gustafson, E.L.) **37**, 143

Neonatal estrogenization

Cerebellum; Na^+ , K^+ -ATPase; Mg^{2+} -ATPase; Synaptosomal fraction; Estradiol benzoate (Litteria, M.) **33**, 157

Neonatal hypothyroidism

Pyramidal neuron; Multivariate analysis; Ageing; Cerebral cortex (Ipiña, S.L.) **37**, 219

Neonatal lesion

Development; Spinal cord; Plasticity; Neural tissue transplant; Serotonin; Sprouting (Bregman, B.S.) **34**, 245

Regeneration; Spinal cord; Neural Tissue transplant; Plasticity; Serotonin; Development; Spinal cord injury (Bregman, B.S.) **34**, 265

Neonatal plasticity

Dopamine; Transplant; Stress; 6-Hydroxydopamine; Turning (Carder, R.K.) **33**, 315

Neonatal rat

Axon guidance; Spinal cord; Laminin (Schreyer, D.) **35**, 291

Olfaction; [¹⁴C]2-Deoxyglucose; Conditioning; Olfactory bulb; Plasticity; Early learning (Sullivan, R.M.) **35**, 307

Neonate

Cholecystokinin; Opioid receptor; Development; Rat; Brain (Johnson, F.E.) **32**, 139

Odor; Olfaction; Exposure; Mitral cell; Cell enlargement; Cell-shrinkage (Panhuber, H.) **34**, 133

Nerve crush

Development; Motoneuron; Skeletal muscle (Lowrie, M.) **31**, 91

Nerve damage

Trigeminal; Barrel; Plasticity; Development; Brainstem (Jacquin, M.F.) **31**, 161

Nerve fiber regeneration

Nerve growth factor; Sympathetic neuron; Cell culture; Nerve fiber sprouting; Growth cone (Campenot, R.B.) **37**, 293

Nerve fiber sprouting

Nerve growth factor; Sympathetic neuron; Cell culture; Nerve fiber regeneration; Growth cone (Campenot, R.B.) **37**, 293

Nerve growth factor

Neurite-promoting factor; Astrocyte; Schwann cell (Assouline, J.G.) **31**, 103

Neural crest; Nerve growth factor receptor; Tyrosine hydroxylase; Serotonin; Vasoactive intestinal polypeptide (Bernd, P.) **33**, 31

Thyroid hormone; Subcortical cholinergic neuron; Regulation of choline acetyltransferase; Acetylcholinesterase; 3,3',5-Triiodo-L-thyronine; Cholinergic cell culture; Interaction between humoral factors (Hayashi, M.) **36**, 109

Sympathetic neuron; Cell culture; Nerve fiber sprouting; Nerve fiber regeneration; Growth cone

(Campenot, R.B.) **37**, 293

Nerve growth factor receptor

Nerve growth factor; Neural crest; Tyrosine hydroxylase; Serotonin; Vasoactive intestinal polypeptide (Bernd, P.) **33**, 31

Nerve root

Development; Sensory axon; Asymmetry; Lobster (Govind, C.) **35**, 131

Neural antigen

Thy-1; Chicken; Development; Cell surface glycoprotein (Sinclair, C.M.) **35**, 43

Neural crest

Neuropeptide; Differentiation; Autonomic neuron; Vasoactive intestinal polypeptide (VIP); Adrenergic; Cholinergic (García-Arrarás, J.E.) **33**, 255

Nerve growth factor; Nerve growth factor receptor; Tyrosine hydroxylase; Serotonin; Vasoactive intestinal polypeptide (Bernd, P.) **33**, 31

Neural crest ablation

Specific neuronal connection; Axon guidance (Yip, J.W.) **32**, 155

Neural development

Chick/quail chimera; Tectal transplant (Senut, M.) **32**, 187

Suprachiasmatic nucleus; Immunohistochemistry; Vasopressin; Vasoactive intestinal polypeptide; Brain transplant; Hypothalamus (Roberts, M.H.) **32**, 59

Neural graft

α -Bungarotoxin; Receptor; Superior colliculus; Rat; Development (Tan, M.M.L.) **36**, 293

Neural implant

Chick; Eyeball; Pecten; Optic tectum (Ehrlich, D.) **33**, 139

Neural retina

Ganglion cell; Axon elongation; Optic lobe; Chick embryo; Neurotrophic factor (Carri, N.) **31**, 83

Neural tissue transplant

Development; Spinal cord; Neonatal lesion; Plasticity; Serotonin; Sprouting (Bregman, B.S.) **34**, 245

Neonatal lesion; Regeneration; Spinal cord; Plasticity; Serotonin; Development; Spinal cord injury (Bregman, B.S.) **34**, 265

Neurite

Basement membrane; Laminin; Regeneration; Axon; Extracellular matrix (Davis, G.E.) **33**, 1

NG108-15 cell; Laminin; Cycloheximide; Calmodulin antagonist; Phorbol ester (Smalheiser, N.) **34**, 111

Neurite extension factor

S100 protein; Neuroblastoma cell;

Defined medium; Morphological differentiation; Bioassay (Kligman, D.) **33**, 296

Neurite outgrowth

Astrocyte; Extracellular matrix; Development; PC12 cells; In vitro (Wujek, J.R.) **34**, 87

Cerebellar granule cell; In vitro; Development; Cytoskeleton; Immunofluorescence (Cambray-Deakin, M.) **37**, 197

Neurite outgrowth factor

Monoclonal antibody; Ciliary ganglion; Gizzard smooth muscle (Hayashi, Y.) **35**, 11

Neurite regeneration

Motoneuron; Dorsal root ganglion; Survival; Age dependency (Nichol, K.) **32**, 85

Neurite-promoting factor

Nerve growth factor; Astrocyte; Schwann cell (Assouline, J.G.) **31**, 103

Telencephalic neuron; Embryonic brain culture; Survival-promoting factor (Taguchi, T.) **37**, 125

Neuro-ontogenesis

Plasminogen activator; Peripheral nervous system; Mitogen; Schwann cell; Urokinase; Tissue type PA; Plasminogen activator inhibitor (Baron-Van Evercooren, A.) **36**, 101

Neuroblastoma

Adrenergic receptor; Cholinergic receptor; Differentiation (Reboulleau, C.P.) **31**, 201

Phosphatidylinositol turnover; Calcium flux; Adenylate cyclase; Neurotransmitter receptor; Differentiation (Reboulleau, C.P.) **31**, 213

Glial growth inhibitory factor; Glia maturation factor; Differentiation; Proliferation; Glioblast (Kato, T.) **33**, 153

Muscarinic receptor; Phorbol ester; Retinoic acid; Differentiation; Acetylcholinesterase; Choline acetyltransferase (Adem, A.) **33**, 235

Neuroblastoma cell

Neurite extension factor; S100 protein; Defined medium; Morphological differentiation; Bioassay (Kligman, D.) **33**, 296

Neurogenesis

Epileptogenesis; Neocortex; Developing Neuron; Cortical inhibition; Pyramidal Neuron (Kriegstein, A.) **34**, 161

Cell death; Bromodeoxyuridine; Chick; Autoradiography (Bannigan, J.G.) **36**, 161

Neurogenetic gradient

Hamster; Lateral geniculate nucleus; Suprachiasmatic nucleus; Superior

colliculus; Morphometry; Visual system (Crossland, W.) **36**, 314

Neuroglia

Brain development; Glutamine synthetase; S-100; Glial fibrillary acidic protein; Carbonic anhydrase; Cell interactions; Cell culture (Linser, P.J.) **31**, 277

Neuromuscular junction

Calcium; Protease; Plasticity; Synapse (Swanson, G.J.) **33**, 199

Neuron

Immunocytochemistry; Autoradiography; Oligodendrocyte; Astrocyte; γ - ^3H Aminobutyric acid; D- ^3H Aspartate; Tissue culture (Reynolds, R.) **36**, 1

Neuron-specific enolase

PC12 cell; Sodium butyrate; Differentiation; Chromaffin cell (Byrd, J.C.) **31**, 151

Vestibular system; Organ culture; Mouse embryo otocyst; Immunocytochemistry (Raymond, J.) **31**, 299

Neuronal activity

Circadian rhythm; Suprachiasmatic nucleus; Hypothalamic slice; Calcium (Shibata, S.) **34**, 311

Neuronal cell culture

Phenylethanolamine N-methyltransferase; Catecholamine; Tyrosine hydroxylase; Neurotransmitter development; Glucocorticoid; Neuronal differentiation (Bohn, M.C.) **37**, 257

Neuronal death

Temporal cortex; Development; Cat (Valverde, F.) **32**, 283

Central nervous system development; Transient projection; Collateral; Competition; Pruning; Cerebellum; Pyramidal tract (Tolbert, D.) **33**, 11

Neuronal development

MAP-2; Tau; Microtubule; Immunocytochemistry (Ferreira, A.) **34**, 9

Neuronal differentiation

Phenylethanolamine N-methyltransferase; Catecholamine; Tyrosine hydroxylase; Neurotransmitter development; Glucocorticoid; Neuronal cell culture (Bohn, M.C.) **37**, 257

Neuronal morphogenesis

Glutamic acid decarboxylase (GAD); γ -Aminobutyric acid (GABA); Basal ganglion; Synaptic inhibition; Transmitter/metabolic enzyme differentiation; Fetal/perinatal brain development; Immunohistochemistry; Correlative light and electron microscopy (Fisher, R.) **33**, 215

Neuronal rescue

Cerebellar explant; Granuloprival cerebellar culture; Purkinje cell; Target field (Seil, F.J.) **35**, 312

Neuronal specificity

Chick retinotectal system; Transplant (Thanos, S.) **32**, 161

Neuronal tissue culture

Rat brain; Granule neuron; Non-granule neuron; Mossy fiber; N2 medium; Immunocytochemistry (Boss, B.D.) **36**, 199

Neuronotrophic agent

Testosterone; Medial preoptic area; Intracerebral transplant; Cell death; Sexually dimorphic (Arendash, G.W.) **34**, 69

Neuropeptide

Differentiation; Autonomic neuron; Vasoactive intestinal polypeptide (VIP); Adrenergic; Cholinergic; Neural crest (García-Arrarás, J.E.) **33**, 255

Neuropeptide Y

Dorsal root ganglion; Tyrosine hydroxylase; Vasoactive intestinal polypeptide (VIP); Substance P; Colocalization; Avian embryo (Xue, Z.-G.) **34**, 99

Neuroretina

Quail; Photoreceptor; Glutamic acid decarboxylase (GAD); γ -Aminobutyric acid (GABA); Immunoreactivity (Pessac, B.) **31**, 156

Neurotensin binding site

Ontogeny; Autoradiography; Cerebral cortex; Rat (Kiyama, H.) **31**, 303

Neurotoxicity

Reaggregate cell culture; Methamphetamine; Dopamine neuron (Kontur, P.) **31**, 7

Neurotransmitter

Prepyriform cortex; Development; Immunocytochemistry; Cholecystokinin; Glutamic acid decarboxylase (Westenbroek, R.) **34**, 191

Adenosine; Cyclic adenosine monophosphate; Optic tectum; Chick embryo (Marques Ventura, A.) **35**, 141

Taurine; γ -Aminobutyric acid (GABA); Release; Development (Kontro, P.) **37**, 277

Neurotransmitter development

Phenylethanolamine N-methyltransferase; Catecholamine; Tyrosine hydroxylase; Glucocorticoid; Neuronal cell culture; Neuronal differentiation (Bohn, M.C.) **37**, 257

Neurotransmitter receptor

Phosphatidylinositol turnover; Calcium flux; Adenylate cyclase; Neuroblastoma; Differentiation (Reboulleau, C.P.) **31**, 213

Neurotrophic factor

Neural retina; Ganglion cell; Axon elongation; Optic lobe; Chick embryo (Carri, N.) **31**, 83

Neurulation

Collagen type IV; Fibronectin; Heparan sulfate proteoglycan; Laminin; Mouse embryo (O'Shea, K.) **37**, 11

Newborn

γ -Aminobutyric acid; Muscimol; Bicuculline; Seizure; Substantia nigra; Rat (Sperber, E.F.) **37**, 243

NG108-15 cell

Neurite; Laminin; Cycloheximide; Calmodulin antagonist; Phorbol ester (Smalheiser, N.) **34**, 111

Nissl staining

Ventral tegmental area; Prefrontal cortex; Dopaminergic projection; Dopamine lesion; Serotonin; Cortical thickness; Amygdala (Kalsbeek, A.) **32**, 123

Nitrocellulose

Ciliary neuronotrophic factor; Blot and culture; Avian and rodent; Tissue extract; Ciliary ganglion neuron (Rudge, J.S.) **32**, 103

Non-granule neuron

Neuronal tissue culture; Rat brain; Granule neuron; Mossy fiber; N2 medium; Immunocytochemistry (Boss, B.D.) **36**, 199

Non-pyramidal neuron

Acetylcholine; Cerebral cortex; Immunocytochemistry (Hendry, S.H.C.) **37**, 313

Noradrenaline

Visual cortex; Monocular deprivation; 6-Hydroxydopamine; Plasticity (Allen, E.) **32**, 53

Guinea pig; α_1 -Receptor; Preoptic area; Hypothalamus; Cortex; 6-Hydroxydopamine; Prazosin (Johnson, A.E.) **32**, 67

Locus coeruleus; Development; α_2 -Adrenoceptor; Autoinhibition; Negative feedback; Iontophoresis; Piperoxane (Kimura, F.) **35**, 21

Noradrenergic

Transplant; Delayed innervation; Spinal cord graft; Intraocular (Henschen, A.) **36**, 237

Nucleus

Retina; Brain; Development; Mouse; Histone (Perkins, P.) **33**, 161

Nucleus basalis

Hypoxia-ischemia; Choline acetyltransferase; Caudate-putamen; Striatum; Cholinergic neuron (Johnston, M.V.) **34**, 41

O

Obesity

Mouse; Brain; Peripheral tissue; Estradiol; Diabetes (Garris, D.R.) **35**, 153

Occipital cortex

Tectum; Transplantation; Horseradish peroxidase; Layer V; Pyramidal cell; Connectional selectivity (Sharkey, M.A.) **31**, 119

Methylazoxymethanol acetate; Microcephaly; Micrencephaly; Rat; Cytochrome oxidase histochemistry (Ashwell, K.W.S.) **33**, 301

Ocular dominance

Accessory optic system; Monocular deprivation; Lateral and dorsal terminal nuclei; Direction and velocity selectivity; Cat (Grasse, K.L.) **31**, 229

Antibody; Vision; Striate cortex; Monocular deprivation; Y-cell; Binocular competition (McCall, M.A.) **34**, 235

Odor

Olfaction; Exposure; Mitral cell; Neonate; Cell enlargement; Cell-shrinkage (Panhuber, H.) **34**, 133

Olfaction

Exposure; Adult rat; Mitral cell; Cell shrinkage (Panhuber, H.) **31**, 307

Odor; Exposure; Mitral cell; Neonate; Cell enlargement; Cell-shrinkage (Panhuber, H.) **34**, 133

[¹⁴C]2-Deoxyglucose; Conditioning; Neonatal rat; Olfactory bulb; Plasticity; Early learning (Sullivan, R.M.) **35**, 307

Hypothyroidism; Thyroxine; Mouse (Beard, M.) **36**, 181

Olfactory bulb

Development; Sensory deprivation; Metabolic development; Sensory system (Cullinan, W.E.) **35**, 35

Olfaction; [¹⁴C]2-Deoxyglucose; Conditioning; Neonatal rat; Plasticity; Early learning (Sullivan, R.M.) **35**, 307

Radial glia; Glial fibrillary acid protein (GFAP) staining (Hajós, F.) **36**, 131

Olfactory bulb development

Synaptic inhibition; Granule cell development; Inhibition development; Synaptic facilitation; Paired-pulse effect (Wilson, D.) **33**, 134

Olfactory glomerulus; 2-Deoxyglucose (Woo, C.C.) **36**, 309

Olfactory bulb EEG development

Cerebral cortical ontogeny; Environmental effect on brain development; Cingulate EEG power spectrum; Hippocampal theta; Limbic system EEG ontogeny; EEG plasticity

in undernutrition; Brain growth spurt EEG (Rajanna, B.) **37**, 97

Olfactory epithelium

Development; Frog; Regeneration (Lidow, M.S.) **31**, 243

Olfactory receptor neuron; Thyroxine; Mouse; Development (Mackay-Sim, A.) **36**, 190

Olfactory glomerulus

2-Deoxyglucose; Olfactory bulb development (Woo, C.C.) **36**, 309

Olfactory pathway

Accessory olfactory bulb; Brain development; Main olfactory bulb; Rat (Rosselli-Austin, L.) **36**, 304

Olfactory receptor neuron

Olfactory epithelium; Thyroxine; Mouse; Development (Mackay-Sim, A.) **36**, 190

Oligodendrocyte

Carbonic anhydrase; Development; Optic nerve; Glia; Myelination; PH (Davis, P.K.) **31**, 291

Hydrocortisone; Serum-free culture; Glial cell; Rat brain (Warringa, R.A.J.) **34**, 79

Culture; Transferrin receptor (Espinosa de los Monteros, A.) **35**, 123

Immunocytochemistry; Autoradiography; Astrocyte; Neuron; γ -[³H]Aminobutyric acid; D-[³H]Aspartate; Tissue culture (Reynolds, R.) **36**, 1

Astrocyte; Immunocytochemistry; Autoradiography; [³H] γ -Aminobutyric acid; D-[³H]Aspartate; Central nervous system culture; Serum-free medium (Reynolds, R.) **36**, 13

Oligodendroglia

Spinal cord; Cortex; Aggregate culture; Myelination; Perineuronal cell (Devon, R.M.) **32**, 289

Jimpy mouse; Cell cycle; Myelin (Knapp, P.E.) **35**, 301

Ontogenesis

Adenosine deaminase; Adenosine; Immunohistochemistry; Rat brain; Purinergic neurotransmission; Purine metabolism (Senba, E.) **31**, 59

Luteinizing hormone; Prolactin; Haloperidol; Sex difference; Brain organization (Lacau de Mengido, I.) **35**, 91

Ontogeny

Brain; DNA synthesis; Morphine; Naloxone; Naltrexone; Opiate; [³H]Thymidine (Kornblum, H.I.) **31**, 45

Neurotensin binding site; Autoradiography; Cerebral cortex; Rat (Kiyama, H.) **31**, 303

Glutamic acid decarboxylase; Tyrosine hydroxylase; Choline acetyltransferase;

Somatostatin; Substance P; Cerebellum; Primate (Hayashi, M.) **32**, 181

Ontogeny

Opiate; Morphine; Ketocyclazocine, μ opioid receptor; κ opioid receptor; Analgesia (Giordano, J.) **32**, 247

Tight junction; Blood-brain barrier; Permeability (Stewart, P.) **32**, 271

Muscarinic receptor; Hippocampus primary culture; Binding (Fernandez-Tomé, P.) **35**, 158

Quantitative autoradiography; Opiate receptor; μ -Receptor; κ -Receptor; δ -Receptor (Kornblum, H.I.) **37**, 21

Onuf's nucleus

Development; Ventrolateral dendrite bundle; Rat; Pudendal innervation; Lumbosacral spinal cord; Quantitative Golgi study (Bellinger, D.L.) **35**, 55

Opiate

Brain; DNA synthesis; Morphine; Naloxone; Naltrexone; Ontogeny; [³H]Thymidine (Kornblum, H.I.) **31**, 45

Morphine; Ketocyclazocine, μ opioid receptor; κ opioid receptor; Analgesia; Ontogeny (Giordano, J.) **32**, 247

Opiate receptor

Quantitative autoradiography; μ -Receptor; κ -Receptor; δ -Receptor; Ontogeny (Kornblum, H.I.) **37**, 21

Opiate μ , δ , κ U50488

Prolactin; Development; Opioid; Serotonin (Bero, L.A.) **37**, 189

Opioid

Prolactin; Development; Opiate μ , δ , κ U50488; Serotonin (Bero, L.A.) **37**, 189

Opioid binding site

Membrane suspension of rat brain; Postnatal development; μ -, δ - and β -Sites; Maximum binding capacity; Binding affinity (Petrillo, P.) **31**, 53

Opioid receptor

Postnatal development; Divalent cation; Rat forebrain (Oetting, G.M.) **31**, 223

Cholecystokinin; Development; Rat; Brain; Neonate (Johnson, F.E.) **32**, 139

 κ opioid receptor

Opiate; Morphine; Ketocyclazocine, μ opioid receptor; Analgesia; Ontogeny (Giordano, J.) **32**, 247

Optic fiber

Regeneration; Topography; Tectum; Marker; Goldfish; Electrophysiology (Meyer, R.L.) **31**, 312

Tectum; Tetrodotoxin; Topography; Activity; Pathway; Goldfish; Regeneration (Meyer, R.L.) **37**, 115

Optic lobe

Neural retina; Ganglion cell; Axon

elongation; Chick embryo;
Neurotrophic factor (Carri, N.) **31**, 83

Optic nerve

Carbonic anhydrase; Development;
Oligodendrocyte; Glia; Myelination;
PH (Davis, P.K.) **31**, 291

Microphthalmia; Lateral geniculate
nucleus; Lamination; Interlaminar
zone; Glutamic acid decarboxylase;
Horseradish peroxidase (Robson, J.)
33, 81

Chiasm; Tract; Astroglial maturation;
Glial filament protein (Bovolenta, P.)
33, 113

Optic radiation lesion

Hamster; Corpus callosum; Retrograde
tracing (Rhoades, R.W.) **32**, 217

Optic tectum

Chick; Eyeball; Pecten; Neural implant
(Ehrlich, D.) **33**, 139

Adenosine; Cyclic adenosine
monophosphate; Neurotransmitter;
Chick embryo (Marques Ventura, A.)
35, 141

Optic tract

Visual cortex deafferentation;
Monocular deprivation; Orientation
selectivity; Direction selectivity;
Receptive field area; Corpus callosum;
Acute cat; Chronic cat (Yinon, U.)
33, 205

Organ culture

Vestibular system; Neuron-specific
enolase; Mouse embryo otocyst;
Immunocytochemistry (Raymond, J.)
31, 299

Orientation

Mitosis; Fetal rat brain (Zamenhof, S.)
31, 143

Orientation selectivity

Visual cortex deafferentation; Optic
tract; Monocular deprivation; Direction
selectivity; Receptive field area; Corpus
callosum; Acute cat; Chronic cat
(Yinon, U.) **33**, 205

Ovine corticotropin-releasing factor

Corticoliberin neuron; Rat
corticotropin-releasing factor; Human
fetal hypothalamus; Development;
Immunocytochemistry (Bresson, J.-L.)
32, 241

P

Paired-pulse effect

Olfactory bulb development; Synaptic
inhibition; Granule cell development;
Inhibition development; Synaptic
facilitation (Wilson, D.) **33**, 134

Parallel channel

Cytochrome oxidase; Development;
Retina; Dorsal lateral geniculate
nucleus (Lachica, E.) **34**, 298

Pathway

Optic fiber; Tectum; Tetrodotoxin;
Topography; Activity; Goldfish;
Regeneration (Meyer, R.L.) **37**, 115

Pattern formation molecule

Tritiated fucose incorporation;
Autoradiography; Lectin binding; Glial
fibrillary acidic protein
immunocytochemistry; Central nervous
system hidden boundary
(Steindler, D.A.) **36**, 27

PC12 cell

Sodium butyrate; Differentiation;
Chromaffin cell; Neuron-specific
enolase (Byrd, J.C.) **31**, 151

Astrocyte; Extracellular matrix;
Neurite outgrowth; Development; In
vitro (Wujek, J.R.) **34**, 87

Pecten

Chick; Eyeball; Neural implant; Optic
tectum (Ehrlich, D.) **33**, 139

Perinatal

Hypoxia-ischemia; Autoradiography;
Glutamic acid; Dentate gyrus
(Silverstein, F.S.) **34**, 33

Perineuronal cell

Oligodendroglia; Spinal cord; Cortex;
Aggregate culture; Myelination
(Devon, R.M.) **32**, 289

Peripheral nerve

Schwann cell; Lipid antigen;
Immunofluorescence; Monoclonal
antibody; Development; Myelin
(Eccleston, P.A.) **35**, 249

Peripheral nervous system

Plasminogen activator; Mitogen;
Schwann cell; Urokinase; Tissue type
PA; Plasminogen activator inhibitor;
Neuro-ontogenesis (Baron-Van
Evercooren, A.) **36**, 101

Peripheral tissue

Mouse; Brain; Estradiol; Diabetes;
Obesity (Garris, D.R.) **35**, 153

Permeability

Tight junction; Ontogeny; Blood-brain
barrier (Stewart, P.) **32**, 271

Peroxidase-antiperoxidase method

Myelination; Myelin basic protein;
Immunohistochemistry; Brainstem; Rat
(Rozeik, C.) **35**, 183

pH

Carbonic anhydrase; Development;
Oligodendrocyte; Optic nerve; Glia;
Myelination (Davis, P.K.) **31**, 291

Phenobarbital

Energy metabolism; Glucose; Amino
acid; Developing rat brain; Thyroid
hormone; Barbiturate; Chronic
treatment (Pereira de Vasconcelos, A.)
36, 219

Energy metabolism; Ketone body;
Amino acid; Developing rat brain;
Barbiturate; Chronic treatment
(Pereira de Vasconcelos, A.) **36**, 231

Phenotypic plasticity

Sympathetic ganglion; Choline
acetyltransferase; Tyrosine hydroxylase;
Culture; Chick (Iacovitti, L.) **33**, 59

Phenylethanolamine

N-methyltransferase

Catecholamine; Tyrosine hydroxylase;
Neurotransmitter development;
Glucocorticoid; Neuronal cell culture;
Neuronal differentiation (Bohn, M.C.)
37, 257

Phorbol ester

Astrocyte; Proliferation; Amiloride;
Insulin; Cell culture (Murphy, S.)
31, 133

Muscarinic receptor; Neuroblastoma;
Retinoic acid; Differentiation;
Acetylcholinesterase; Choline
acetyltransferase (Adem, A.) **33**, 235

NG108-15 cell; Neurite; Laminin;
Cycloheximide; Calmodulin antagonist
(Smalheiser, N.) **34**, 111

Phosphatidylinositol turnover

Calcium flux; Adenylate cyclase;
Neurotransmitter receptor;
Neuroblastoma; Differentiation
(Reboulleau, C.P.) **31**, 213

Photoreceptor

Quail; Neuroretina; Glutamic acid
decarboxylase (GAD); γ -Aminobutyric
acid (GABA); Immunoreactivity
(Pessac, B.) **31**, 156

Pilocarpine

Maturation; Seizure; Brain damage;
Development; Rat (Cavalheiro, E.A.)
37, 43

Piperoxane

Locus coeruleus; Development;
Noradrenaline; α_2 -Adrenoceptor;
Autoinhibition; Negative feedback;
Ionophoresis (Kimura, F.) **35**, 21

Pituitary

β -Endorphin; Corticosterone;
Development; Rat; Stress;
Pro-opiomelanocortin processing
(Iny, L.J.) **31**, 177

Immunohistochemistry; Progesterone
receptor; Hypothalamus;
Gonadotrophe; Chick embryo
(Guennoun, R.) **37**, 1

Placing

Infant lesion effect; Sensorimotor
cortex; Sparing and recovery of
function; Development (Leonard, C.T.)
32, 1

Plasminogen activator

Peripheral nervous system; Mitogen;
Schwann cell; Urokinase; Tissue type
PA; Plasminogen activator inhibitor;
Neuro-ontogenesis (Baron-Van
Evercooren, A.) **36**, 101

Plasminogen activator inhibitor

Plasminogen activator; Peripheral nervous system; Mitogen; Schwann cell; Urokinase; Tissue type PA; Neuro-ontogenesis (Baron-Van Evercooren, A.) **36**, 101

Plasticity

Synaptogenesis; Critical period; Cerebral cortex; In vitro (Van Huizen, F.) **31**, 1

Visual cortex; Monocular deprivation; Norepinephrine; 6-Hydroxydopamine (Allen, E.) **32**, 53

Trigeminal; Barrel; Development; Brainstem; Nerve damage (Jacquin, M.F.) **31**, 161

Corticorubral; Corticothalamic; Corticospinal; Exuberance (Leonard, C.T.) **32**, 15

Trigeminal; Transplantation; Cortex; Development; Regeneration (Jacquin, M.F.) **32**, 301

Visual deprivation; Monkey; Brodmann's area 7; Blindness; Recovery (Carlson, S.) **33**, 101

Calcium; Protease; Neuromuscular junction; Synapse (Swanson, G.J.) **33**, 199

Development; Visual cortex; Tetrodotoxin; Deprivation (Greuel, J.) **34**, 141

Development; Spinal cord; Neonatal lesion; Neural tissue transplant; Serotonin; Sprouting (Bregman, B.S.) **34**, 245

Neonatal lesion; Regeneration; Spinal cord; Neural Tissue transplant; Serotonin; Development; Spinal cord injury (Bregman, B.S.) **34**, 265

Lateral geniculate nucleus; C lamina; Development; Monocular deprivation (Murakami, D.M.) **35**, 215

Olfaction; [¹⁴C]2-Deoxyglucose; Conditioning; Neonatal rat; Olfactory bulb; Early learning (Sullivan, R.M.) **35**, 307

Polyneuronal innervation

Muscle development; Fiber hyperplasia; Synapse elimination; Topographical projection; Toad (Malik, R.) **34**, 173

Postnatal brain development

Acetylcholine (ACh); Mouse; Weaning (Sawa, A.) **34**, 151

Postnatal development

Membrane suspension of rat brain; Opioid binding site; μ -, δ - and β -Sites; Maximum binding capacity; Binding affinity (Petrillo, P.) **31**, 53

Opioid receptor; Divalent cation; Rat forebrain (Oetting, G.M.) **31**, 223

Purkinje cell; Excitatory amino acid (Dupont, J.-L.) **34**, 59

Hippocampus; Frontal cortex; Choline uptake; Acetylcholine synthesis (Kotas, A.M.) **35**, 175

Monkey; Subthalamic nucleus; Basal ganglia system; Stereology; Synapse elimination (Fisher, J.E.) **36**, 39

Transient neuronal type; White matter; GAD immunohistochemistry (Wahle, P.) **36**, 53

Cerebellum; Glutamate; *N*-Methyl-D-aspartate; Kainate; Quisqualate; Purkinje cell; Granule cell (Garthwaite, G.) **36**, 288

Benzodiazepine; γ -Aminobutyric acid (GABA); Receptor; Cat visual cortex; Dark rearing (Shaw, C.) **37**, 67

Motoneuron; Synapse elimination; Spinal cord; Ultrastructure; Cat (Arvidsson, U.) **37**, 303

Prazosin

Guinea pig; α_1 -Receptor; Norepinephrine; Preoptic area; Hypothalamus; Cortex; 6-Hydroxydopamine (Johnson, A.E.) **32**, 67

Prefrontal cortex

Ventral tegmental area; Dopaminergic projection; Dopamine lesion; Serotonin; Cortical thickness; Nissl staining; Amygdala (Kalsbeek, A.) **32**, 123

Preoptic area

Guinea pig; α_1 -Receptor; Norepinephrine; Hypothalamus; Cortex; 6-Hydroxydopamine; Prazosin (Johnson, A.E.) **32**, 67

Prepyriform cortex

Development; Immunocytochemistry; Cholecystokinin; Glutamic acid decarboxylase; Neurotransmitter (Westenbroek, R.) **34**, 191

Primate

Eenucleation; Lateral geniculate nucleus (Sloper, J.) **31**, 259

Visual deprivation; Lateral geniculate nucleus; Monocular segment (Sloper, J.) **31**, 267

Glutamic acid decarboxylase; Tyrosine hydroxylase; Choline acetyltransferase; Somatostatin; Substance P; Cerebellum; Ontogeny (Hayashi, M.) **32**, 181

Brain; Androgen; Receptor; Fetus (Pomerantz, S.M.) **36**, 151

Pro-opiomelanocortin processing

β -Endorphin; Corticosterone; Pituitary; Development; Rat; Stress (Iny, L.J.) **31**, 177

Progesterone receptor

Immunohistochemistry; Hypothalamus; Pituitary; Gonadotropin; Chick embryo (Guennoun, R.) **37**, 1

Projection column

Lamination; Horseradish peroxidase;

Lateral geniculate nucleus; Soma size (Condo, G.) **35**, 148

Prolactin

Ontogenesis; Luteinizing hormone; Haloperidol; Sex difference; Brain organization (Lacau de Mengido, I.) **35**, 91

Development; Opioid; Opiate μ , δ , κ U50488; Serotonin (Bero, L.A.) **37**, 189

Proliferation

Astrocyte; Phorbol ester; Amiloride; Insulin; Cell culture (Murphy, S.) **31**, 133

Glial growth inhibitory factor; Glia maturation factor; Neuroblastoma; Differentiation; Glioblast (Kato, T.) **33**, 153

Protease

Calcium; Neuromuscular junction; Plasticity; Synapse (Swanson, G.J.) **33**, 199

Protein synthesis inhibition

Chick; Learning; Synapse (Bradley, P.) **37**, 267

N-Protein

Development; Adenosine; Cyclohexyladenosine; 5'-Guanylylimidodiphosphate (Morgan, P.F.) **35**, 269

Pruning

Central nervous system development; Transient projection; Collateral; Competition; Neuronal death; Cerebellum; Pyramidal tract (Tolbert, D.) **33**, 11

Pruning effect

Neonatal 6-hydroxydopamine; Dopamine- β -hydroxylase; Immunohistochemistry; Cortex; Thalamus; Hyperinnervation (Gustafson, E.L.) **37**, 143

Pudendal innervation

Development; Ventrolateral dendrite bundle; Onuf's nucleus; Rat; Lumbosacral spinal cord; Quantitative Golgi study (Bellinger, D.L.) **35**, 55

Development; Ventromedial dendrite bundle; Quantitative Golgi study; Rat; Lumbosacral spinal cord (Bellinger, D.L.) **35**, 69

Pulpal axon

Cat permanent incisor; Autotransplantation; Tooth bud; Tooth development; Electron microscopy (Erdélyi, G.) **33**, 39

Purified motoneuron

Schwann cell; Growth factor (Hill, M.A.) **33**, 243

Purine metabolism

Adenosine deaminase; Adenosine; Immunohistochemistry; Ontogenesis; Rat brain; Purinergic neurotransmission (Senba, E.) **31**, 59

Purinergic neurotransmission

Adenosine deaminase; Adenosine; Immunohistochemistry; Ontogenesis; Rat brain; Purine metabolism (Senba, E.) **31**, 59

Purkinje cell

Development; Synapse elimination; Cerebellum; Agranular ferret (Benoit, P.) **34**, 51

Postnatal development; Excitatory amino acid (Dupont, J.-L.) **34**, 59

Cerebellum; Choline acetyltransferase immunohistochemistry; Development; Acetylcholinesterase (Gould, E.) **34**, 303

Cerebellar explant; Granuloprival cerebellar culture; Neuronal rescue; Target field (Seil, F.J.) **35**, 312

Cerebellum; Glutamate; *N*-Methyl-D-aspartate; Kainate; Quisqualate; Postnatal development; Granule cell (Garthwaite, G.) **36**, 288

High-affinity GABA_A receptor; Granule cell; Golgi cell; Development; Autoradiography (Frostholm, A.) **37**, 157

Pyramidal cell

Occipital cortex; Tectum; Transplantation; Horseradish peroxidase; Layer V; Connectional selectivity (Sharkey, M.A.) **31**, 119

Pyramidal neuron

Epileptogenesis; Neocortex; Developing Neuron; Cortical inhibition; Neurogenesis (Kriegstein, A.) **34**, 161

Multivariate analysis; Neonatal hypothyroidism; Ageing; Cerebral cortex (Ipiña, S.L.) **37**, 219

Pyramidal tract

Central nervous system development; Transient projection; Collateral; Competition; Pruning; Neuronal death; Cerebellum (Tolbert, D.) **33**, 11

Q**Quail**

Neuroretina; Photoreceptor; Glutamic acid decarboxylase (GAD); γ -Aminobutyric acid (GABA); Immunoreactivity (Pessac, B.) **31**, 156

Quantitative autoradiography

Mouse brain development; α -Scorpion toxin receptor; Na⁺ channel (Martin-Moutot, N.) **32**, 43

Opiate receptor; μ -Receptor;

κ -Receptor; δ -Receptor; Ontogeny (Kornblum, H.I.) **37**, 21

Quantitative Golgi study

Development; Ventrolateral dendrite bundle; Onuf's nucleus; Rat; Pudendal innervation; Lumbosacral spinal cord (Bellinger, D.L.) **35**, 55

Development; Ventromedial dendrite bundle; Rat; Lumbosacral spinal cord; Pudendal innervation (Bellinger, D.L.) **35**, 69

Quisqualate

Cerebellum; Glutamate; *N*-Methyl-D-aspartate; Kainate; Postnatal development; Purkinje cell; Granule cell (Garthwaite, G.) **36**, 288

R**Rabbit**

Brainstem; Auditory; Evoked potential; Development (Pettigrew, A.G.) **33**, 267

Radial glia

Olfactory bulb; Glial fibrillary acid protein (GFAP) staining (Hajós, F.) **36**, 131

Astrocyte; Glial fibrillary acidic protein; Arcuate nucleus; Hypothalamus; Development; Immunocytochemistry (Suarez, I.) **37**, 89

Immunocytochemistry; Rodent central nervous system; Subpial astrocyte; Glial fibrillary acid protein; Antineurofilament antibody; Glial palisade; Central nervous system development (Bitner, C.) **37**, 167

Radial section

Retinal growth; Dopaminergic cell; 6-Hydroxydopamine; Wholemount; [³H]Thymidine (Negishi, K.) **33**, 67

Raphe nuclei

Sprouting; Serotonin; 6-Hydroxydopamine; Development; Raphe-cortical projection; Cerebral cortex (Blue, M.E.) **32**, 255

Raphe-cortical projection

Sprouting; Serotonin; 6-Hydroxydopamine; Development; Cerebral cortex; Raphe nuclei (Blue, M.E.) **32**, 255

Rat

Basal ganglion; Muscimol; Catecholamine; Seizure; Animal, newborn (Moshé, S.L.) **31**, 129

β -Endorphin; Corticosterone; Pituitary; Development; Stress; Pro-opiomelanocortin processing

(Iny, L.J.) **31**, 177

Neurotensin binding site; Ontogeny; Autoradiography; Cerebral cortex (Kiyama, H.) **31**, 303

Cholecystokinin; Opioid receptor; Development; Brain; Neonate (Johnson, F.E.) **32**, 139

Cerebrospinal fluid pressure; Resistance to absorption; Development (Jones, H.) **33**, 23

Retina; Cell death; Mitosis; Regulation (Beazley, L.) **33**, 169

Methylazoxymethanol acetate; Microcephaly; Micrencephaly; Occipital cortex; Cytochrome oxidase histochemistry (Ashwell, K.W.S.) **33**, 301

Glutamic acid decarboxylase; Sexual maturation; Age; γ -Aminobutyric acid; Hypothalamus (Sternberg, H.) **34**, 316

Development; Ventrolateral dendrite bundle; Onuf's nucleus; Pudendal innervation; Lumbosacral spinal cord; Quantitative Golgi study (Bellinger, D.L.) **35**, 55

Development; Ventromedial dendrite bundle; Quantitative Golgi study; Lumbosacral spinal cord; Pudendal innervation (Bellinger, D.L.) **35**, 69

Ependyma; Antigenicity; Tissue culture; Cerebral cortex; Cilia; Developmental morphology; Immunohistochemistry (Jordan, F.) **35**, 97

Myelination; Myelin basic protein; Immunohistochemistry; Peroxidase-antiperoxidase method; Brainstem (Rozeik, C.) **35**, 183

Methylazoxymethanol acetate; Target dependence; Microcephaly; Micrencephaly (Ashwell, K.) **35**, 199

Midline thalamic nucleus; Forebrain; Laterality; Development; Cell migration; Retrograde double labeling (Takada, M.) **35**, 275

Infraorbital nerve; Regeneration; Cell death; Transganglionic reorganization (Chiaia, N.L.) **36**, 75

Corticospinal tract; Development; Termination field; Anterograde tracing (Joosten, E.A.J.) **36**, 121

Acetylcholinesterase histochemistry; Electron microscopy; Dentate gyrus; Development (Seress, L.) **36**, 139

Development; Choline acetyltransferase; Immunocytochemistry; Septal/diagonal band (Armstrong, D.M.) **36**, 249

α -Bungarotoxin; Receptor; Superior colliculus; Neural graft; Development (Tan, M.M.L.) **36**, 293

Accessory olfactory bulb; Brain development; Main olfactory bulb;

Olfactory pathway (Rosselli-Austin, L.) **36**, 304

Pilocarpine; Maturation; Seizure; Brain damage; Development (Cavalheiro, E.A.) **37**, 43

Visual system; Trophic factor; In vivo assay; Dorsal lateral geniculate nucleus; Cerebral cortex lesion (Cunningham, T.J.) **37**, 133

Cochlea; Compound action potential; Tuning curve; Development (Puel, J.-L.) **37**, 179

γ -Aminobutyric acid; Muscimol; Bicuculline; Seizure; Substantia nigra; Newborn (Sperber, E.F.) **37**, 243

Rat brain

Adenosine deaminase; Adenosine; Immunohistochemistry; Ontogenesis; Purinergic neurotransmission; Purine metabolism (Senba, E.) **31**, 59

Serotonin; Serotonin binding protein; Serotonergic marker; Tryptophan hydroxylase; Monoamine oxidase; Developmental regulation (Liu, K.) **32**, 31

Oligodendrocyte; Hydrocortisone; Serum-free culture; Glial cell (Warringa, R.A.J.) **34**, 79

Neuronal tissue culture; Granule neuron; Non-granule neuron; Mossy fiber; N2 medium; Immunocytochemistry (Boss, B.D.) **36**, 199

Rat corticotropin-releasing factor
Corticoliberin neuron; Ovine corticotropin-releasing factor; Human fetal hypothalamus; Development; Immunocytochemistry (Bresson, J.-L.) **32**, 241

Rat forebrain

Opioid receptor; Postnatal development; Divalent cation (Oetting, G.M.) **31**, 223

Rat retina

Reaggregate culture; Glycine-accumulating cell; Selective localization (Akagawa, K.) **31**, 124

Rat sciatic nerve

Development; Crush lesion; Regeneration; Myelin sheath; Internodal length; Remodelling; Light microscopy (Hildebrand, C.) **32**, 147

Reaggregate cell culture

Neurotoxicity; Methamphetamine; Dopamine neuron (Kontur, P.) **31**, 7

Reaggregate culture

Rat retina; Glycine-accumulating cell; Selective localization (Akagawa, K.) **31**, 124

Receptive field area

Visual cortex deafferentation; Optic tract; Monocular deprivation; Orientation selectivity; Direction selectivity; Corpus callosum; Acute cat;

Chronic cat (Yinon, U.) **33**, 205

Receptor

Primate; Brain; Androgen; Fetus (Pomerantz, S.M.) **36**, 151

α -Bungarotoxin; Superior colliculus; Neural graft; Rat; Development (Tan, M.M.L.) **36**, 293

Benzodiazepine; γ -Aminobutyric acid (GABA); Cat visual cortex; Postnatal development; Dark rearing (Shaw, C.) **37**, 67

Receptor development

GABA_A receptor; GABA_B receptor; Benzodiazepine receptor; Serotonin; Dorsal raphe nucleus (Smith, D.) **35**, 191

κ -Receptor

Quantitative autoradiography; Opiate receptor; μ -Receptor; δ -Receptor; Ontogeny (Kornblum, H.I.) **37**, 21

α_1 -Receptor

Guinea pig; Norepinephrine; Preoptic area; Hypothalamus; Cortex; 6-Hydroxydopamine; Prazosin (Johnson, A.E.) **32**, 67

Glutamate receptor; Muscarinic receptor (Gonzales, R.A.) **37**, 59

δ -Receptor

Quantitative autoradiography; Opiate receptor; μ -Receptor; κ -Receptor; Ontogeny (Kornblum, H.I.) **37**, 21

μ -Receptor

Quantitative autoradiography; Opiate receptor; κ -Receptor; δ -Receptor; Ontogeny (Kornblum, H.I.) **37**, 21

Recovery

Visual deprivation; Monkey; Brodmann's area 7; Blindness; Plasticity (Carlson, S.) **33**, 101

Reeler mutant mouse

Cortical barrel; Thalamic barreloid; Lectin; Glycoconjugate; Glial fibrillary acidic protein (GFAP); Glia (O'Brien, T.F.) **32**, 309

Regeneration

Development; Frog; Olfactory epithelium (Lidow, M.S.) **31**, 243

Topography; Optic fiber; Tectum; Marker; Goldfish; Electrophysiology (Meyer, R.L.) **31**, 312

Rat sciatic nerve; Development; Crush lesion; Myelin sheath; Internodal length; Remodelling; Light microscopy (Hildebrand, C.) **32**, 147

Trigeminal; Transplantation; Cortex; Development; Plasticity (Jacquin, M.F.) **32**, 301

Basement membrane; Laminin; Neurite; Axon; Extracellular matrix (Davis, G.E.) **33**, 1

Axonal maturation; Ionic channel; Development; Myelination (Bowe, C.) **34**, 123

Neonatal lesion; Spinal cord; Neural Tissue transplant; Plasticity; Serotonin; Development; Spinal cord injury (Bregman, B.S.) **34**, 265

Rat; Infraorbital nerve; Cell death; Transganglionic reorganization (Chiaia, N.L.) **36**, 75

Optic fiber; Tectum; Tetrodotoxin; Topography; Activity; Pathway; Goldfish (Meyer, R.L.) **37**, 115

Regulation

Retina; Cell death; Mitosis; Rat (Beazley, L.) **33**, 169

Regulation of choline acetyltransferase

Thyroid hormone; Nerve growth factor; Subcortical cholinergic neuron; Acetylcholinesterase; 3,3',5-Triiodo-L-thyronine; Cholinergic cell culture; Interaction between humoral factors (Hayashi, M.) **36**, 109

Release

Taurine; γ -Aminobutyric acid (GABA); Development; Neurotransmitter (Kontro, P.) **37**, 277

Remodelling

Rat sciatic nerve; Development; Crush lesion; Regeneration; Myelin sheath; Internodal length; Light microscopy (Hildebrand, C.) **32**, 147

Reorganization

Somatosensory cortex; Mapping; Age-dependence (McKinley, P.A.) **31**, 136

Resistance to absorption

Cerebrospinal fluid pressure; Development; Rat (Jones, H.) **33**, 23

Retina

Cell culture; Leu-enkephalin; Immunocytochemistry; Development (Fukuda, M.) **31**, 147

Brain; Development; Mouse; Histone; Nucleus (Perkins, P.) **33**, 161

Cell death; Mitosis; Regulation; Rat (Beazley, L.) **33**, 169

Somatostatin; Development; Amacrine cell; Ganglion cell (Ferriero, D.M.) **34**, 207

Antibody; Development; Vision; Ganglion cell; α -Cell; Y-cell; Lateral geniculate nucleus (McCall, M.A.) **34**, 223

Parallel channel; Cytochrome oxidase; Development; Dorsal lateral geniculate nucleus (Lachica, E.) **34**, 298

Retinal development

Dopamine; Retinal ganglion cell; Dopamine receptor (Ikeda, H.) **35**, 83

Retinal ganglion cell

Transplant; Development; Axon outgrowth; Cell death (Sefton, A.J.) **33**, 145

Dopamine; Retinal development;

Dopamine receptor (Ikeda, H.) **35**, 83

Retinal ganglion cell survival

Müller glia; Superior colliculus;
Development (Armson, P.) **32**, 207

Retinal growth

Dopaminergic cell;
6-Hydroxydopamine; Wholemount;
Radial section; [³H]Thymidine
(Negishi, K.) **33**, 67

Retinal neuron

Synaptogenesis; Muscle cell; Cell
culture (Puro, D.G.) **33**, 305

Retinal transplantation

Lesion conditioning; Donor age
(Blair, J.R.) **36**, 257

Retinoic acid

Muscarinic receptor; Neuroblastoma;
Phorbol ester; Differentiation;
Acetylcholinesterase; Choline
acetyltransferase (Adem, A.) **33**, 235

Retrograde double labeling

Midline thalamic nucleus; Forebrain;
Laterality; Development; Cell
migration; Rat (Takada, M.) **35**, 275

Retrograde labeling

Sympathetic neuron; Iris; Axon
extension (Vidovic, M.) **32**, 133

Retrograde tracing

Hamster; Corpus callosum; Optic
radiation lesion (Rhoades, R.W.)
32, 217

θ-Rhythm

Electroencephalographic power
spectrum; Electroencephalographic
ontogeny; Hippocampus; Frontal
cortex; Bioelectric brain development;
Brain development; Vigilance state
(Bronzino, J.) **35**, 257

Rodent

Growing axon; Antitubulin;
Cold-stable microtubule;
Differentiating nervous system
(Cohen, E.) **36**, 171

Rodent central nervous system

Immunocytochemistry; Radial glia;
Subpial astrocyte; Glial fibrillary acid
protein; Antineurofilament antibody;
Glial palisade; Central nervous system
development (Bitner, C.) **37**, 167

S

S-100

Neuroglia; Brain development;
Glutamine synthetase; Glial fibrillary
acidic protein; Carbonic anhydrase;
Cell interactions; Cell culture
(Linsler, P.J.) **31**, 277

Neurite extension factor;
Neuroblastoma cell; Defined medium;
Morphological differentiation; Bioassay
(Kligman, D.) **33**, 296

Glial cell; Spinal cord; Human
development; Immunohistochemistry
(Lauriola, L.) **37**, 251

[³H]SCH 23390

D₁-dopamine receptors; Adenylate
cyclase; Dopamine; Development;
Aging; Striatum (Giorgi, O.) **35**, 283

Schwann cell

Neurite-promoting factor; Nerve
growth factor; Astrocyte
(Assouline, J.G.) **31**, 103

Myelination; Extracellular matrix;
Defined medium (Carey, D.J.) **32**, 95

Purified motoneuron; Growth factor
(Hill, M.A.) **33**, 243

Lipid antigen; Immunofluorescence;
Monoclonal antibody; Development;
Peripheral nerve; Myelin
(Eccleston, P.A.) **35**, 249

Plasminogen activator; Peripheral
nervous system; Mitogen; Urokinase;
Tissue type PA; Plasminogen activator
inhibitor; Neuro-ontogenesis
(Baron-Van Evercooren, A.) **36**, 101

α-Scorpion toxin receptor

Mouse brain development;
Quantitative autoradiography; Na⁺
channel (Martin-Moutot, N.) **32**, 43

Seizure

Basal ganglion; Muscimol;
Catecholamine; Rat; Animal, newborn
(Moshé, S.L.) **31**, 129

Epilepsy; Kindling; Hippocampus;
Amygdala (Holmes, G.L.) **36**, 281

Pilocarpine; Maturation; Brain
damage; Development; Rat
(Cavalheiro, E.A.) **37**, 43

γ-Aminobutyric acid; Muscimol;
Bicuculline; Substantia nigra; Rat;
Newborn (Sperber, E.F.) **37**, 243

Selective localization

Rat retina; Reaggregate culture;
Glycine-accumulating cell
(Akagawa, K.) **31**, 124

Sensitive phase

Imprinting; Auditory system; Bird;
2-Deoxyglucose (Maier, V.) **31**, 15

Sensorimotor cortex

Infant lesion effect; Placing; Sparing
and recovery of function; Development
(Leonard, C.T.) **32**, 1

Sensory axon

Development; Nerve root; Asymmetry;
Lobster (Govind, C.) **35**, 131

Sensory deprivation

Olfactory bulb; Development;
Metabolic development; Sensory

system (Cullinan, W.E.) **35**, 35

Sensory neuron

Afterhyperpolarizing potential (HAP);
Down syndrome; Mouse; Trisomy 16;
Action potential; Tissue culture;
Membrane property (Orozco, C.B.)
32, 111

Sensory system

Olfactory bulb; Development; Sensory
deprivation; Metabolic development
(Cullinan, W.E.) **35**, 35

Septal/diagonal band

Development; Choline
acetyltransferase; Rat;
Immunocytochemistry
(Armstrong, D.M.) **36**, 249

Septum

Hippocampus; Dentate gyrus;
Development; Acetylcholine; Sex
dimorphism (Loy, R.) **34**, 156

Serotonergic marker

Serotonin; Serotonin binding protein;
Rat brain; Tryptophan hydroxylase;
Monoamine oxidase; Developmental
regulation (Liu, K.) **32**, 31

Serotonin

Serotonin binding protein; Serotonergic
marker; Rat brain; Tryptophan
hydroxylase; Monoamine oxidase;
Developmental regulation (Liu, K.)
32, 31

Ventral tegmental area; Prefrontal
cortex; Dopaminergic projection;
Dopamine lesion; Cortical thickness;
Nissl staining; Amygdala
(Kalsbeek, A.) **32**, 123

Sprouting; 6-Hydroxydopamine;
Development; Raphe-cortical
projection; Cerebral cortex; Raphe
nuclei (Blue, M.E.) **32**, 255

Nerve growth factor; Neural crest;
Nerve growth factor receptor; Tyrosine
hydroxylase; Vasoactive intestinal
polypeptide (Bernd, P.) **33**, 31

Serotonin, receptor; Developmental
signal; Fetal neurotransmitter;
p-Chlorophenylalanine;
5-Methoxytryptamine
(Whitaker-Azmitia, P.M.) **33**, 285

Development; Spinal cord; Neonatal
lesion; Plasticity; Neural tissue
transplant; Sprouting (Bregman, B.S.)
34, 245

Neonatal lesion; Regeneration; Spinal
cord; Neural Tissue transplant;
Plasticity; Development; Spinal cord
injury (Bregman, B.S.) **34**, 265

GABA_A receptor; GABA_B receptor;
Benzodiazepine receptor; Dorsal raphe
nucleus; Receptor development
(Smith, D.) **35**, 191

Prolactin; Development; Opioid;
Opiate μ , δ , κ U50488 (Bero, L.A.)
37, 189

Serotonin binding protein

Serotonin; Serotonergic marker; Rat brain; Tryptophan hydroxylase; Monoamine oxidase; Developmental regulation (Liu, K.) **32**, 31

Serotonin₁ receptor

Serotonin; Developmental signal; Fetal neurotransmitter;
p-Chlorophenylalanine;
5-Methoxytryptamine
(Whitaker-Azmitia, P.M.) **33**, 285

Serum-free culture

Oligodendrocyte; Hydrocortisone; Glial cell; Rat brain (Warringa, R.A.J.) **34**, 79

Fetal rat brain; Dissociated cell;
Cell-cycle analysis; Synchronized brain cell; Thymidine labelling; Birth dating (Ahmed, Z.) **37**, 77

Serum-free medium

Oligodendrocyte; Astrocyte;
Immunocytochemistry;
Autoradiography; [³H] γ -Aminobutyric acid; D-[³H]Aspartate; Central nervous system culture (Reynolds, R.) **36**, 13

Sex difference

Bed nucleus of the stria terminalis;
Vomerolateral system (Del Abril, A.) **32**, 295

Ontogenesis; Luteinizing hormone;
Prolactin; Haloperidol; Brain organization (Lacau de Mengido, I.) **35**, 91

Sex differentiation

Hypothalamus-preoptic area;
Aromatase; Androgen; Estrogen;
Transplant; Testosterone
(Paden, C.M.) **33**, 127

Sex dimorphism

Hippocampus; Dentate gyrus; Septum;
Development; Acetylcholine (Loy, R.) **34**, 156

Sexual differentiation

Synaptogenesis; Electrophysiology;
Spinal nucleus of the bulbocavernosus;
Sexual dimorphism; Androgen
(Rand, M.N.) **33**, 150

Sexual dimorphism

Synaptogenesis; Electrophysiology;
Spinal nucleus of the bulbocavernosus;
Sexual differentiation; Androgen
(Rand, M.N.) **33**, 150

Sexual maturation

Glutamic acid decarboxylase; Age;
 γ -Aminobutyric acid; Hypothalamus;
Rat (Sternberg, H.) **34**, 316

Sexually dimorphic

Testosterone; Medial preoptic area;
Intracerebral transplant;
Neuronotrophic agent; Cell death
(Arendash, G.W.) **34**, 69

Shiverer (*shi*) mutant mouse

Myelin deficient (*mld*) mutant mouse;
Major dense line; Myelin basic protein (MBP); 2',3'-Cyclic nucleotide

3'-phosphodiesterase (CNPase); Myelin (Mikoshiba, K.) **35**, 111

 μ -, δ - and β -Sites

Membrane suspension of rat brain;
Postnatal development; Opioid binding site; Maximum binding capacity;
Binding affinity (Petrillo, P.) **31**, 53

Skeletal muscle

Development; Motoneuron; Nerve crush (Lowrie, M.) **31**, 91

Sodium butyrate

PC12 cell; Differentiation; Chromaffin cell; Neuron-specific enolase
(Byrd, J.C.) **31**, 151

Soma size

Lamination; Projection column;
Horseradish peroxidase; Lateral geniculate nucleus (Condo, G.) **35**, 148

Somatosensory barrel

Cortical development; Chimera; Cell lineage; Mouse (Goldowitz, D.) **35**, 1

Somatosensory cortex

Mapping; Reorganization;
Age-dependence (McKinley, P.A.) **31**, 136

Somatostatin

Glutamic acid decarboxylase; Tyrosine hydroxylase; Choline acetyltransferase; Substance P; Cerebellum; Primate;
Ontogeny (Hayashi, M.) **32**, 181

Development; Retina; Amacrine cell;
Ganglion cell (Ferriero, D.M.) **34**, 207

Somatostatin ontogeny

Human fetus spinal cord;
Immunofluorescence (Charnay, Y.) **36**, 63

Sparing and recovery of function

Infant lesion effect; Sensorimotor cortex; Placing; Development
(Leonard, C.T.) **32**, 1

Specific neuronal connection

Axon guidance; Neural crest ablation
(Yip, J.W.) **32**, 155

Spinal cord

Oligodendroglia; Cortex; Aggregate culture; Myelination; Perineuronal cell
(Devon, R.M.) **32**, 289

Motoneuron; Cell death; Chick embryo
(Williams, C.) **34**, 215

Development; Neonatal lesion;
Plasticity; Neural tissue transplant;
Serotonin; Sprouting (Bregman, B.S.) **34**, 245

Neonatal lesion; Regeneration; Neural Tissue transplant; Plasticity; Serotonin;
Development; Spinal cord injury
(Bregman, B.S.) **34**, 265

Axon guidance; Laminin; Neonatal rat
(Schreyer, D.) **35**, 291

Chick embryo; Excitatory amino acid;
Motor activity; Development
(Barry, M.A.J.) **36**, 271

Glial cell; Human development; S-100

protein; Immunohistochemistry
(Lauriola, L.) **37**, 251

Postnatal development; Motoneuron;
Synapse elimination; Ultrastructure;
Cat (Arvidsson, U.) **37**, 303

Spinal cord graft

Transplant; Noradrenergic; Delayed innervation; Intraocular
(Henschen, A.) **36**, 237

Spinal cord injury

Neonatal lesion; Regeneration; Spinal cord; Neural Tissue transplant;
Plasticity; Serotonin; Development
(Bregman, B.S.) **34**, 265

Spinal nucleus of the bulbocavernosus

Synaptogenesis; Electrophysiology;
Sexual dimorphism; Sexual differentiation; Androgen
(Rand, M.N.) **33**, 150

Spindle

Thalamus; Cortex;
Electroencephalogram (EEG)
(Domich, L.) **31**, 140

Sprouting

Serotonin; 6-Hydroxydopamine;
Development; Raphe-cortical projection; Cerebral cortex; Raphe nuclei (Blue, M.E.) **32**, 255

Development; Spinal cord; Neonatal lesion; Plasticity; Neural tissue transplant; Serotonin (Bregman, B.S.) **34**, 245

Stereology

Postnatal development; Monkey;
Subthalamic nucleus; Basal ganglia system; Synapse elimination
(Fisher, J.E.) **36**, 39

Stress

β -Endorphin; Corticosterone; Pituitary;
Development; Rat;
Pro-opiomelanocortin processing
(Iny, L.J.) **31**, 177

Dopamine; Transplant; Neonatal plasticity; 6-Hydroxydopamine; Turning
(Carder, R.K.) **33**, 315

Striate cortex

Antibody; Ocular dominance; Vision;
Monocular deprivation; Y-cell;
Binocular competition (McCall, M.A.) **34**, 235

Striatum

Compartment; Intraocular transplant
(Johnston, J.G.) **33**, 310

Hypoxia-ischemia; Choline acetyltransferase; Caudate-putamen;
Nucleus basalis; Cholinergic neuron
(Johnston, M.V.) **34**, 41

D₁-dopamine receptors; [³H]SCH 23390; Adenylate cyclase; Dopamine;
Development; Aging (Giorgi, O.) **35**, 283

Striatum development

Haloperidol; Dopaminergic system

Íñiguez, C.) **35**, 27

Subcortical cholinergic neuron

Thyroid hormone; Nerve growth factor; Regulation of choline acetyltransferase; Acetylcholinesterase;

3',5'-Triiodo-L-thyronine; Cholinergic cell culture; Interaction between humoral factors (Hayashi, M.) **36**, 109

Subpial astrocyte

Immunocytochemistry; Rodent central nervous system; Radial glia; Glial fibrillary acid protein;

Antineurofilament antibody; Glial alkalase; Central nervous system development (Bitner, C.) **37**, 167

Substance P

Glutamic acid decarboxylase; Tyrosine hydroxylase; Choline acetyltransferase; Somatostatin; Cerebellum; Primate; Ontogeny (Hayashi, M.) **32**, 181

Dorsal root ganglion; Tyrosine hydroxylase; Vasoactive intestinal polypeptide (VIP); Neuropeptide Y; Colocalization; Avian embryo (Xue, Z.-G.) **34**, 99

Substantia nigra

-Aminobutyric acid; Muscimol; Bicuculline; Seizure; Rat; Newborn (Sperber, E.F.) **37**, 243

Subthalamic nucleus

Postnatal development; Monkey; Basal ganglia system; Stereology; Synapse elimination (Fisher, J.E.) **36**, 39

Superior colliculus

EGC survival; Müller glia; Development (Armson, P.) **32**, 207

-Bungarotoxin; Receptor; Neural graft; Rat; Development (Tan, M.M.L.) **36**, 293

Neurogenetic gradient; Hamster; Lateral geniculate nucleus; Suprachiasmatic nucleus; Morphometry; Visual system (Crossland, W.) **36**, 314

Suprachiasmatic nucleus

Immunohistochemistry; Vasopressin; Vasoactive intestinal polypeptide; Brain transplant; Hypothalamus; Neural development (Roberts, M.H.) **32**, 59

Circadian rhythm; Hypothalamic slice; Neuronal activity; Calcium (Shibata, S.) **34**, 311

Neurogenetic gradient; Hamster; Lateral geniculate nucleus; Superior colliculus; Morphometry; Visual system (Crossland, W.) **36**, 314

Survival

Motoneuron; Dorsal root ganglion; Neurite regeneration; Age dependency (Nichol, K.) **32**, 85

Survival-promoting factor

Telencephalic neuron; Embryonic brain culture; Neurite-promoting factor (Taguchi, T.) **37**, 125

Sympathetic ganglion

Choline acetyltransferase; Tyrosine hydroxylase; Culture; Chick; Phenotypic plasticity (Iacovitti, L.) **33**, 59

Sympathetic neuron

Iris; Axon extension; Retrograde labeling (Vidovic, M.) **32**, 133

Nerve growth factor; Cell culture; Nerve fiber sprouting; Nerve fiber regeneration; Growth cone (Campenot, R.B.) **37**, 293

Sympatho-adrenal development

Hypoglycemia; Catecholamine secretion in neonate (Lau, C.) **36**, 277

Synapse

Calcium; Protease; Neuromuscular junction; Plasticity (Swanson, G.J.) **33**, 199

Development; Aging; Synaptogenesis (Markus, E.J.) **35**, 239

Chick; Learning; Protein synthesis inhibition (Bradley, P.) **37**, 267

Synapse elimination

Muscle development; Fiber hyperplasia; Polyneuronal innervation; Topographical projection; Toad (Malik, R.) **34**, 173

Development; Cerebellum; Purkinje cell; Agranular ferret (Benoit, P.) **34**, 51

Postnatal development; Monkey; Subthalamic nucleus; Basal ganglia system; Stereology (Fisher, J.E.) **36**, 39

Postnatal development; Motoneuron; Spinal cord; Ultrastructure; Cat (Arvidsson, U.) **37**, 303

Synaptic facilitation

Olfactory bulb development; Synaptic inhibition; Granule cell development; Inhibition development; Paired-pulse effect (Wilson, D.) **33**, 134

Synaptic inhibition

Olfactory bulb development; Granule cell development; Inhibition development; Synaptic facilitation; Paired-pulse effect (Wilson, D.) **33**, 134

Glutamic acid decarboxylase (GAD); γ -Aminobutyric acid (GABA); Basal ganglion; Neuronal morphogenesis; Transmitter/metabolic enzyme differentiation; Fetal/perinatal brain development; Immunohistochemistry; Correlative light and electron microscopy (Fisher, R.) **33**, 215

Synaptic vesicle

Cerebellar granule cell; Microtubule-associated protein; Cytoskeleton; Axon (Cambray-Deakin, M.) **34**, 1

Synaptogenesis

Plasticity; Critical period; Cerebral cortex; In vitro (Van Huizen, F.) **31**, 1

Electrophysiology; Spinal nucleus of the bulbocavernosus; Sexual dimorphism; Sexual differentiation; Androgen (Rand, M.N.) **33**, 150

Retinal neuron; Muscle cell; Cell culture (Puro, D.G.) **33**, 305

Synapse; Development; Aging (Markus, E.J.) **35**, 239

Synaptosomal fraction

Cerebellum; Na^+ , K^+ -ATPase; Mg^{2+} -ATPase; Estradiol benzoate; Neonatal estrogenization (Litteria, M.) **33**, 157

Synchronized brain cell

Fetal rat brain; Dissociated cell; Serum-free culture; Cell-cycle analysis; Thymidine labelling; Birth dating (Ahmed, Z.) **37**, 77

T

Target dependence

Methylazoxymethanol acetate; Microcephaly; Micrencephaly; Rat (Ashwell, K.) **35**, 199

Target field

Cerebellar explant; Granuloprival cerebellar culture; Purkinje cell; Neuronal rescue (Seil, F.J.) **35**, 312

Tau

MAP-2; Microtubule; Neuronal development; Immunocytochemistry (Ferreira, A.) **34**, 9

Taurine

γ -Aminobutyric acid (GABA); Release; Development; Neurotransmitter (Kontro, P.) **37**, 277

Tectal transplant

Chick/quail chimera; Neural development (Senut, M.) **32**, 187

Tectum

Occipital cortex; Transplantation; Horseradish peroxidase; Layer V; Pyramidal cell; Connectional selectivity (Sharkey, M.A.) **31**, 119

Regeneration; Topography; Optic fiber; Marker; Goldfish; Electrophysiology (Meyer, R.L.) **31**, 312

Optic fiber; Tetrodotoxin; Topography; Activity; Pathway; Goldfish; Regeneration (Meyer, R.L.) **37**, 115

Telencephalic neuron

Embryonic brain culture; Neurite-promoting factor; Survival-promoting factor (Taguchi, T.) **37**, 125

Temporal cortex

Development; Cat; Neuronal death

(Valverde, F.) **32**, 283

Termination field

Corticospinal tract; Development; Anterograde tracing; Rat (Joosten, E.A.J.) **36**, 121

Testosterone

Sex differentiation; Hypothalamus-preoptic area; Aromatase; Androgen; Estrogen; Transplant (Paden, C.M.) **33**, 127

Medial preoptic area; Intracerebral transplant; Neurotrophic agent; Cell death; Sexually dimorphic (Arendash, G.W.) **34**, 69

Tetrodotoxin

Development; Plasticity; Visual cortex; Deprivation (Greuel, J.) **34**, 141

Optic fiber; Tectum; Topography; Activity; Pathway; Goldfish; Regeneration (Meyer, R.L.) **37**, 115

Thalamic barreloid

Reeler mutant mouse; Cortical barrel; Lectin; Glycoconjugate; Glial fibrillary acidic protein (GFAP); Glia (O'Brien, T.F.) **32**, 309

Thalamus

Cortex; Electroencephalogram (EEG); Spindle (Domich, L.) **31**, 140

Neonatal 6-hydroxydopamine; Dopamine- β -hydroxylase; Immunohistochemistry; Cortex; Hyperinnervation; Pruning effect (Gustafson, E.L.) **37**, 143

Thy-1

Neural antigen; Chicken; Development; Cell surface glycoprotein (Sinclair, C.M.) **35**, 43

Thymidine labelling

Fetal rat brain; Dissociated cell; Serum-free culture; Cell-cycle analysis; Synchronized brain cell; Birth dating (Ahmed, Z.) **37**, 77

[³H]Thymidine

Brain; DNA synthesis; Morphine; Naloxone; Naltrexone; Ontogeny; Opiate (Kornblum, H.I.) **31**, 45

Retinal growth; Dopaminergic cell; 6-Hydroxydopamine; Wholemout; Radial section (Negishi, K.) **33**, 67

Thyroid hormone

Nerve growth factor; Subcortical cholinergic neuron; Regulation of choline acetyltransferase; Acetylcholinesterase; 3,3',5-Triiodo-L-thyronine; Cholinergic cell culture; Interaction between humoral factors (Hayashi, M.) **36**, 109

Energy metabolism; Glucose; Amino acid; Developing rat brain; Phenobarbital; Barbiturate; Chronic treatment (Pereira de Vasconcelos, A.) **36**, 219

Thyroxine

Olfaction; Hypothyroidism; Mouse

(Beard, M.) **36**, 181

Olfactory epithelium; Olfactory receptor neuron; Mouse; Development (Mackay-Sim, A.) **36**, 190

Tight junction

Ontogeny; Blood-brain barrier; Permeability (Stewart, P.) **32**, 271

Astrocyte; Blood-brain barrier; Brain capillary endothelium; Extracellular matrix (Arthur, F.E.) **36**, 155

Tissue culture

Sensory neuron; Afterhyperpolarizing potential (HAP); Down syndrome; Mouse; Trisomy 16; Action potential; Membrane property (Orozco, C.B.) **32**, 111

Ependyma; Antigenicity; Cerebral cortex; Cilia; Developmental morphology; Rat; Immunohistochemistry (Jordan, F.) **35**, 97

Immunocytochemistry; Autoradiography; Oligodendrocyte; Astrocyte; Neuron; γ -[³H]Aminobutyric acid; D-[³H]Aspartate (Reynolds, R.) **36**, 1

Tissue extract

Ciliary neurotrophic factor; Blot and culture; Nitrocellulose; Avian and rodent; Ciliary ganglion neuron (Rudge, J.S.) **32**, 103

Tissue type PA

Plasminogen activator; Peripheral nervous system; Mitogen; Schwann cell; Urokinase; Plasminogen activator inhibitor; Neuro-ontogenesis (Baron-Van Evercooren, A.) **36**, 101

Toad

Muscle development; Fiber hyperplasia; Polynuclear innervation; Synapse elimination; Topographical projection (Malik, R.) **34**, 173

Tone pip

Auditory brainstem response; Development; Amplitude (Blatchley, B.) **32**, 75

Tooth bud

Cat permanent incisor; Autotransplantation; Tooth development; Pulpal axon; Electron microscopy (Erdélyi, G.) **33**, 39

Tooth development

Cat permanent incisor; Autotransplantation; Tooth bud; Pulpal axon; Electron microscopy (Erdélyi, G.) **33**, 39

Topographical projection

Muscle development; Fiber hyperplasia; Polynuclear innervation; Synapse elimination; Toad (Malik, R.) **34**, 173

Topography

Regeneration; Optic fiber; Tectum; Marker; Goldfish; Electrophysiology (Meyer, R.L.) **31**, 312

Optic fiber; Tectum; Tetrodotoxin; Activity; Pathway; Goldfish; Regeneration (Meyer, R.L.) **37**, 115

Tract

Optic nerve; Chiasm; Astroglial maturation; Glial filament protein (Bovolenta, P.) **33**, 113

Transferrin

Iron; Developing retina; Chick; Immunocytochemistry (Zeevalk, G.D.) **37**, 231

Transferrin receptor

Oligodendrocyte; Culture (Espinosa de los Monteros, A.) **35**, 123

Transganglionic reorganization

Rat; Infraorbital nerve; Regeneration; Cell death (Chiaia, N.L.) **36**, 75

Transient neuronal type

Postnatal development; White matter; GAD immunohistochemistry (Wahle, P.) **36**, 53

Transient projection

Central nervous system development; Collateral; Competition; Pruning; Neuronal death; Cerebellum; Pyramidal tract (Tolbert, D.) **33**, 11

Transmitter/metabolic enzyme differentiation

Glutamic acid decarboxylase (GAD); γ -Aminobutyric acid (GABA); Basal ganglion; Synaptic inhibition; Neuronal morphogenesis; Fetal/perinatal brain development; Immunohistochemistry; Correlative light and electron microscopy (Fisher, R.) **33**, 215

Transplant

Chick retinotectal system; Neuronal specificity (Thanos, S.) **32**, 161

Sex differentiation; Hypothalamus-preoptic area; Aromatase; Androgen; Estrogen; Testosterone (Paden, C.M.) **33**, 127

Retinal ganglion cell; Development; Axon outgrowth; Cell death (Sefton, A.J.) **33**, 145

Dopamine; Neonatal plasticity; Stress; 6-Hydroxydopamine; Turning (Carder, R.K.) **33**, 315

Noradrenergic; Delayed innervation; Spinal cord graft; Intraocular (Henschen, A.) **36**, 237

Transplantation

Occipital cortex; Tectum; Horseradish peroxidase; Layer V; Pyramidal cell; Connectional selectivity (Sharkey, M.A.) **31**, 119

Trigeminal; Cortex; Development; Plasticity; Regeneration (Jacquin, M.F.) **32**, 301

Trigeminal

Barrel; Plasticity; Development; Brainstem; Nerve damage (Jacquin, M.F.) **31**, 161

Transplantation; Cortex; Development;

Plasticity; Regeneration
(Jacquin, M.F.) **32**, 301

3,3',5-Triiodo-L-thyronine

Thyroid hormone; Nerve growth factor;
Subcortical cholinergic neuron;
Regulation of choline acetyltransferase;
Acetylcholinesterase; Cholinergic cell
culture; Interaction between humoral
factors (Hayashi, M.) **36**, 109

Trisomy 16

Sensory neuron; Afterhyperpolarizing
potential (HAP); Down syndrome;
Mouse; Action potential; Tissue
culture; Membrane property
(Orozco, C.B.) **32**, 111

Tritiated fucose incorporation

Autoradiography; Lectin binding; Glial
fibrillary acidic protein
immunocytochemistry; Central nervous
system hidden boundary; Pattern
formation molecule (Steindler, D.A.)
36, 27

Trophic factor

Visual system; Rat; In vivo assay;
Dorsal lateral geniculate nucleus;
Cerebral cortex lesion
(Cunningham, T.J.) **37**, 133

Tryptophan hydroxylase

Serotonin; Serotonin binding protein;
Serotonergic marker; Rat brain;
Monoamine oxidase; Developmental
regulation (Liu, K.) **32**, 31

Tuning curve

Cochlea; Compound action potential;
Development; Rat (Puel, J.-L.) **37**, 179

Turning

Dopamine; Transplant; Neonatal
plasticity; Stress; 6-Hydroxydopamine
(Carder, R.K.) **33**, 315

Tyrosine hydroxylase

Glutamic acid decarboxylase; Choline
acetyltransferase; Somatostatin;
Substance P; Cerebellum; Primate;
Ontogeny (Hayashi, M.) **32**, 181

Nerve growth factor; Neural crest;
Nerve growth factor receptor;
Serotonin; Vasoactive intestinal
polypeptide (Bernd, P.) **33**, 31

Sympathetic ganglion; Choline
acetyltransferase; Culture; Chick;
Phenotypic plasticity (Iacovitti, L.)
33, 59

Dorsal root ganglion; Vasoactive
intestinal polypeptide (VIP);
Neuropeptide Y; Substance P;
Colocalization; Avian embryo
(Xue, Z.-G.) **34**, 99

Phenylethanolamine
N-methyltransferase; Catecholamine;
Neurotransmitter development;
Glucocorticoid; Neuronal cell culture;
Neuronal differentiation (Bohn, M.C.)
37, 257

U

UDP-N-acetylglucosamine

Dolichyl phosphate;
Glycosyltransferase; Glycoprotein
synthesis; Developing brain
(Volpe, J.J.) **33**, 277

Ultrastructure

Postnatal development; Motoneuron;
Synapse elimination; Spinal cord; Cat
(Arvidsson, U.) **37**, 303

Urokinase

Plasminogen activator; Peripheral
nervous system; Mitogen; Schwann
cell; Tissue type PA; Plasminogen
activator inhibitor; Neuro-ontogenesis
(Baron-Van Evercooren, A.) **36**, 101

V

Vasoactive intestinal polypeptide

Suprachiasmatic nucleus;
Immunohistochemistry; Vasopressin;
Brain transplant; Hypothalamus;
Neural development (Roberts, M.H.)
32, 59

Nerve growth factor; Neural crest;
Nerve growth factor receptor; Tyrosine
hydroxylase; Serotonin (Bernd, P.)
33, 31

Neuropeptide; Differentiation;
Autonomic neuron; Adrenergic;
Cholinergic; Neural crest
(García-Arrarás, J.E.) **33**, 255

Dorsal root ganglion; Tyrosine
hydroxylase; Neuropeptide Y;
Substance P; Colocalization; Avian
embryo (Xue, Z.-G.) **34**, 99

Vasopressin

Suprachiasmatic nucleus;
Immunohistochemistry; Vasoactive
intestinal polypeptide; Brain transplant;
Hypothalamus; Neural development
(Roberts, M.H.) **32**, 59

Ventral tegmental area

Prefrontal cortex; Dopaminergic
projection; Dopamine lesion;
Serotonin; Cortical thickness; Nissl
staining; Amygdala (Kalsbeek, A.)
32, 123

Ventrolateral dendrite bundle

Development; Onuf's nucleus; Rat;
Pudendal innervation; Lumbosacral
spinal cord; Quantitative Golgi study
(Bellinger, D.L.) **35**, 55

Ventromedial dendrite bundle

Development; Quantitative Golgi
study; Rat; Lumbosacral spinal cord;
Pudendal innervation (Bellinger, D.L.)
35, 69

Vestibular system

Organ culture; Neuron-specific enolase;
Mouse embryo otocyst;
Immunocytochemistry (Raymond, J.)
31, 299

Vigilance state

Electroencephalographic power
spectrum; Electroencephalographic
ontogeny; Hippocampus; Frontal
cortex; Bioelectric brain development;
Brain development; θ -Rhythm
(Bronzino, J.) **35**, 257

Vision

Antibody; Development; Ganglion cell;
 α -Cell; Y-cell; Retina; Lateral
geniculate nucleus (McCall, M.A.)
34, 223

Antibody; Ocular dominance; Striate
cortex; Monocular deprivation; Y-cell;
Binocular competition (McCall, M.A.)
34, 235

Visual cortex

Monocular deprivation;
Norepinephrine; 6-Hydroxydopamine;
Plasticity (Allen, E.) **32**, 53

Development; Plasticity; Tetrodotoxin;
Deprivation (Greuel, J.) **34**, 141

Visual cortex deafferentation

Optic tract; Monocular deprivation;
Orientation selectivity; Direction
selectivity; Receptive field area; Corpus
callosum; Acute cat; Chronic cat
(Yinon, U.) **33**, 205

Visual deprivation

Lateral geniculate nucleus; Primate;
Monocular segment (Sloper, J.) **31**, 267

Monkey; Brodmann's area 7;
Blindness; Plasticity; Recovery
(Carlson, S.) **33**, 101

Visual system

Axonal transport; Blood-brain barrier;
Developmental neurobiology; CNS
protein (Moya, K.L.) **31**, 183

Acetylcholinesterase; Cerebral cortex;
Deprivation; Development;
Enucleation (Robertson, R.T.) **33**, 185

Development; Cytochrome oxidase;
Lateral geniculate nucleus
(Murakami, D.M.) **35**, 225

Neurogenetic gradient; Hamster;
Lateral geniculate nucleus;
Suprachiasmatic nucleus; Superior
colliculus; Morphometry
(Crossland, W.) **36**, 314

Rat; Trophic factor; In vivo assay;
Dorsal lateral geniculate nucleus;
Cerebral cortex lesion
(Cunningham, T.J.) **37**, 133

Vomeronasal system

Sex difference; Bed nucleus of the stria terminalis (Del Abril, A.) **32**, 295

W**Weaning**

Acetylcholine (ACh); Postnatal brain

development; Mouse (Sawa, A.)

34, 151

White matter

Postnatal development; Transient neuronal type; GAD

immunohistochemistry (Wahle, P.)

36, 53

Wholemout

Retinal growth; Dopaminergic cell;

6-Hydroxydopamine; Radial section;

[³H]Thymidine (Negishi, K.) **33**, 67

Y**Y-cell**

Antibody; Development; Vision; Ganglion cell; α -Cell; Retina; Lateral geniculate nucleus (McCall, M.A.)

34, 223

Antibody; Ocular dominance; Vision; Striate cortex; Monocular deprivation; Binocular competition (McCall, M.A.)

34, 235

BRAIN RESEARCH REVIEWS
AUTHOR INDEX
1987
VOLUME 434 (12)

B

Bellinger, L.L., see Bernardis, L.L.,
12, 321

Bernardis, L.L. and Bellinger, L.L.
The dorsomedial hypothalamic
nucleus revisited: 1986 update,
12, 321

C

Cavalheiro, E.A., see Turski, W.A.,
12, 281

Coimbra, C., see Turski, W.A., 12, 281
Crutcher, K.A.

Sympathetic sprouting in the central
nervous system: a model for studies
of axonal growth in the mature
mammalian brain. 12, 203

D

Da Penha Berzaghi, M., see
Turski, W.A., 12, 281

Decker, M.W.
The effects of aging on hippocampal
and cortical projections of the
forebrain cholinergic system, 12, 423

Diamond, M.C.
Sex differences in the rat forebrain,
12, 235

F

Fetcho, J.R.
A review of the organization and
evolution of motoneurons
innervating the axial musculature of
vertebrates, 12, 243

H

Halliday, G.M., see Oades, R.D.,
12, 117

Hanretta, A.T. and Lombardini, J.B.
Is taurine a hypothalamic
neurotransmitter?: a model of the

differential uptake and
compartmentalization of taurine by
neuronal and glial cell particles from
the rat hypothalamus, 12, 167

I

Ikonomidou-Turski, C., see
Turski, W.A., 12, 281

Irle, E.
Lesion size and recovery of
function: some new perspectives,
12, 307

K

Kitchen, I., see McDowell, J., 12, 397

L

Lombardini, J.B., see Hanretta, A.T.,
12, 167

M

McDowell, J. and Kitchen, I.
Development of opioid systems:
peptides, receptors and
pharmacology, 12, 397
Mefford, I.N.
Are there epinephrine neurons in
rat brain?, 12, 383
Mortensen, E., see Roland, P.E., 12, 1

O

Oades, R.D. and Halliday, G.M.

Ventral tegmental (A10) system:
neurobiology. 1. Anatomy and
connectivity, 12, 117

R

Robitaille, R. and Tremblay, J.P.
Non-uniform release at the frog
neuromuscular junction: evidence of
morphological and physiological
plasticity, 12, 95

Roland, P.E. and Mortensen, E.
Somatosensory detection of
microgeometry, macrogeometry and
kinesthesia in man, 12, 1

Roland, P.E.
Somatosensory detection of
microgeometry, macrogeometry and
kinesthesia after localized lesions of
the cerebral hemispheres in man,
12, 43

S

Seiger, Å., see Whittemore, S.R.,
12, 439

T

Tremblay, J.P., see Robitaille, R.,
12, 95

Turski, L., see Turski, W.A., 12, 281

Turski, W.A., Cavalheiro, E.A.,
Coimbra, C., Dapenhazerzaghi, M.,
Ikonomidou-Turski, C. and
Turski, L.
Only certain antiepileptic drugs
prevent seizures induced by
pilocarpine, 12, 281

W

Whittemore, S.R. and Seiger, A.
The expression, localization and
functional significance of β -nerve
growth factor in the central nervous
system, 12, 439

BRAIN RESEARCH REVIEWS
SUBJECT INDEX
1978
VOLUME 434 (12)

A

Acetylcholine

Aging; Hippocampus; Cerebral cortex (Decker, M.W.) **12**, 423

Adrenaline

Colocalization; Hypothalamus; Medulla; Phenylethanolamine-*N*-methyltransferase (PNMT); Noradrenaline; Postsynaptic metabolism (Mefford, I.N.) **12**, 383

Aging

Development; Estrogen receptor; Cortex; Neuron; Glia; Sex hormone (Diamond, M.C.) **12**, 235

Acetylcholine; Hippocampus; Cerebral cortex (Decker, M.W.) **12**, 423

Alzheimer's disease

Sympathetic; Sprouting; Nerve growth factor (NGF); Hippocampus; Plasticity; Blood vessel (Crutcher, K.A.) **12**, 203

Antiepileptic drug

Pilocarpine; Temporal lobe epilepsy; Seizure; Brain damage (Turski, W.A.) **12**, 281

Antinociception

Opioid; Ontogeny; Opioid peptide; Opioid receptor; Opioid pharmacology; Perinatal (McDowell, J.) **12**, 397

Autonomic regulation

Dorsomedial hypothalamic nucleus; Lateral hypothalamic area; Ventromedial hypothalamic nucleus; Neuroendocrine regulation; Feeding and thirst regulation; Organismic set point; Neurotransmitter; Excitotoxin lesion; Electrolytic lesion (Bernardis, L.L.) **12**, 321

Axial musculature

Motoneuron; Myomere; Medial motor column; Spinal nerve; Vertebrate (Fetcho, J.R.) **12**, 243

B

Blood vessel

Sympathetic; Sprouting; Nerve growth factor (NGF); Hippocampus; Plasticity; Alzheimer's disease (Crutcher, K.A.) **12**, 203

Brain damage

Pilocarpine; Temporal lobe epilepsy; Seizure; Antiepileptic drug (Turski, W.A.) **12**, 281

Functional recovery; Plasticity; Lesion

size; Neural reorganization (Irle, E.) **12**, 307

C

Central nervous system

Nerve growth factor; Cholinergic neuron; NGF mRNA; NGF receptor; NGF/behavior; NGF/disease (Whittemore, S.R.) **12**, 439

Cerebral cortex

Somatosensory system; Shape discrimination; Roughness discrimination; Kinesesthesia; Touch; Mechanoreceptor; Signal detection (Roland, P.E.) **12**, 1

Acetylcholine; Aging; Hippocampus (Decker, M.W.) **12**, 423

Somatosensory system; Cerebral localization; Human brain; Shape discrimination; Roughness discrimination; Kinesesthesia; Touch; Signal detection (Roland, P.E.) **12**, 43

Cerebral localization

Somatosensory system; Cerebral cortex; Human brain; Shape discrimination; Roughness discrimination; Kinesesthesia; Touch; Signal detection (Roland, P.E.) **12**, 43

Cholinergic neuron

Nerve growth factor; Central nervous system; NGF mRNA; NGF receptor; NGF/behavior; NGF/disease (Whittemore, S.R.) **12**, 439

Circuit system

Ventral tegmental area A10; Substantia nigra A9; Dopamine; Mesostriatal pathway; Mesolimbic pathway; Mesocortical pathway; Limbic system; Neocortex; Convergence system (Oades, R.D.) **12**, 117

Colocalization

Adrenaline; Hypothalamus; Medulla; Phenylethanolamine-*N*-methyltransferase (PNMT); Noradrenaline; Postsynaptic metabolism (Mefford, I.N.) **12**, 383

Convergence system

Ventral tegmental area A10; Substantia nigra A9; Dopamine; Mesostriatal pathway; Mesolimbic pathway; Mesocortical pathway; Limbic system; Neocortex; Circuit system (Oades, R.D.) **12**, 117

Cortex

Development; Aging; Estrogen receptor; Neuron; Glia; Sex hormone (Diamond, M.C.) **12**, 235

D

Development

Aging; Estrogen receptor; Cortex; Neuron; Glia; Sex hormone (Diamond, M.C.) **12**, 235

Dopamine

Ventral tegmental area A10; Substantia nigra A9; Mesostriatal pathway; Mesolimbic pathway; Mesocortical pathway; Limbic system; Neocortex; Convergence system; Circuit system (Oades, R.D.) **12**, 117

Dorsomedial hypothalamic nucleus

Lateral hypothalamic area; Ventromedial hypothalamic nucleus; Neuroendocrine regulation; Autonomic regulation; Feeding and thirst regulation; Organismic set point; Neurotransmitter; Excitotoxin lesion; Electrolytic lesion (Bernardis, L.L.) **12**, 321

E

Electrolytic lesion

Dorsomedial hypothalamic nucleus; Lateral hypothalamic area; Ventromedial hypothalamic nucleus; Neuroendocrine regulation; Autonomic regulation; Feeding and thirst regulation; Organismic set point; Neurotransmitter; Excitotoxin lesion (Bernardis, L.L.) **12**, 321

Endplate potential (EPP)

Non-uniformity; Neuromuscular junction; Frog; Synaptic plasticity; Synaptic transmission; Miniature endplate potential (MEPP) (Robitaille, R.) **12**, 95

Estrogen receptor

Development; Aging; Cortex; Neuron; Glia; Sex hormone (Diamond, M.C.) **12**, 235

Excitotoxin lesion

Dorsomedial hypothalamic nucleus; Lateral hypothalamic area; Ventromedial hypothalamic nucleus; Neuroendocrine regulation; Autonomic regulation; Feeding and thirst regulation; Organismic set point; Neurotransmitter; Electrolytic lesion (Bernardis, L.L.) **12**, 321

F

Feeding and thirst regulation

Dorsomedial hypothalamic nucleus; Lateral hypothalamic area; Ventromedial hypothalamic nucleus; Neuroendocrine regulation; Autonomic regulation; Organismic set point; Neurotransmitter; Excitotoxin lesion; Electrolytic lesion (Bernardis, L.L.) **12**, 321

Frog

Non-uniformity; Neuromuscular junction; Synaptic plasticity; Synaptic transmission; Miniature endplate potential (MEPP); Endplate potential (EPP) (Robitaille, R.) **12**, 95

Functional recovery

Brain damage; Plasticity; Lesion size; Neural reorganization (Irle, E.) **12**, 307

G

Glia

Development; Aging; Estrogen receptor; Cortex; Neuron; Sex hormone (Diamond, M.C.) **12**, 235

Glial localization of taurine binding/uptake systems

Taurine; Hypothalamic neurotransmitter/neuromodulator; High affinity taurine binding/uptake system; Low affinity taurine binding/uptake system; Taurine release; Neuronal localization of taurine binding/uptake systems (Hanretta, A.T.) **12**, 167

H

High affinity taurine binding/uptake system

Taurine; Hypothalamic neurotransmitter/neuromodulator; Low affinity taurine binding/uptake system; Taurine release; Neuronal localization of taurine binding/uptake systems; Glial localization of taurine binding/uptake systems (Hanretta, A.T.) **12**, 167

Hippocampus

Sympathetic; Sprouting; Nerve growth factor (NGF); Plasticity; Blood vessel;

Alzheimer's disease (Crutcher, K.A.) **12**, 203

Acetylcholine; Aging; Cerebral cortex (Decker, M.W.) **12**, 423

Human brain

Somatosensory system; Cerebral cortex; Cerebral localization; Shape discrimination; Roughness discrimination; Kinesthesia; Touch; Signal detection (Roland, P.E.) **12**, 43

Hypothalamic neurotransmitter/neuromodulator

Taurine; High affinity taurine binding/uptake system; Low affinity taurine binding/uptake system; Taurine release; Neuronal localization of taurine binding/uptake systems; Glial localization of taurine binding/uptake systems (Hanretta, A.T.) **12**, 167

Hypothalamus

Adrenaline; Colocalization; Medulla; Phenylethanolamine-*N*-methyltransferase (PNMT); Noradrenaline; Postsynaptic metabolism (Mefford, I.N.) **12**, 383

K

Kinesthesia

Somatosensory system; Cerebral cortex; Shape discrimination; Roughness discrimination; Touch; Mechanoreceptor; Signal detection (Roland, P.E.) **12**, 1

Somatosensory system; Cerebral cortex; Cerebral localization; Human brain; Shape discrimination; Roughness discrimination; Touch; Signal detection (Roland, P.E.) **12**, 43

L

Lateral hypothalamic area

Dorsomedial hypothalamic nucleus; Ventromedial hypothalamic nucleus; Neuroendocrine regulation; Autonomic regulation; Feeding and thirst regulation; Organismic set point; Neurotransmitter; Excitotoxin lesion; Electrolytic lesion (Bernardis, L.L.) **12**, 321

Lesion size

Functional recovery; Brain damage; Plasticity; Neural reorganization

(Irle, E.) **12**, 307

Limbic system

Ventral tegmental area A10; Substantia nigra A9; Dopamine; Mesostriatal pathway; Mesolimbic pathway; Mesocortical pathway; Neocortex; Convergence system; Circuit system (Oades, R.D.) **12**, 117

Low affinity taurine binding/uptake system

Taurine; Hypothalamic neurotransmitter/neuromodulator; High affinity taurine binding/uptake system; Taurine release; Neuronal localization of taurine binding/uptake systems; Glial localization of taurine binding/uptake systems (Hanretta, A.T.) **12**, 167

M

Mechanoreceptor

Somatosensory system; Cerebral cortex; Shape discrimination; Roughness discrimination; Kinesthesia; Touch; Signal detection (Roland, P.E.) **12**, 1

Medial motor column

Motoneuron; Axial musculature; Myomere; Spinal nerve; Vertebrate (Fetcho, J.R.) **12**, 243

Medulla

Adrenaline; Colocalization; Hypothalamus; Phenylethanolamine-*N*-methyltransferase (PNMT); Noradrenaline; Postsynaptic metabolism (Mefford, I.N.) **12**, 383

Mesocortical pathway

Ventral tegmental area A10; Substantia nigra A9; Dopamine; Mesostriatal pathway; Mesolimbic pathway; Limbic system; Neocortex; Convergence system; Circuit system (Oades, R.D.) **12**, 117

Mesolimbic pathway

Ventral tegmental area A10; Substantia nigra A9; Dopamine; Mesostriatal pathway; Mesocortical pathway; Limbic system; Neocortex; Convergence system; Circuit system (Oades, R.D.) **12**, 117

Mesostriatal pathway

Ventral tegmental area A10; Substantia nigra A9; Dopamine; Mesolimbic pathway; Mesocortical pathway; Limbic system; Neocortex; Convergence system; Circuit system (Oades, R.D.) **12**, 117

Miniature endplate potential (MEPP)

Non-uniformity; Neuromuscular

junction; Frog; Synaptic plasticity; Synaptic transmission; Endplate potential (EPP) (Robitaille, R.) **12**, 95

Motoneuron

Axial musculature; Myomere; Medial motor column; Spinal nerve; Vertebrate (Fetcho, J.R.) **12**, 243

Myomere

Motoneuron; Axial musculature; Medial motor column; Spinal nerve; Vertebrate (Fetcho, J.R.) **12**, 243

N

Neocortex

Ventral tegmental area A10; Substantia nigra A9; Dopamine; Mesostriatal pathway; Mesolimbic pathway; Mesocortical pathway; Limbic system; Convergence system; Circuit system (Oades, R.D.) **12**, 117

Nerve growth factor

Sympathetic; Sprouting; Hippocampus; Plasticity; Blood vessel; Alzheimer's disease (Crutcher, K.A.) **12**, 203

Central nervous system; Cholinergic neuron; NGF mRNA; NGF receptor; NGF/behavior; NGF/disease (Whittemore, S.R.) **12**, 439

Neural reorganization

Functional recovery; Brain damage; Plasticity; Lesion size (Irle, E.) **12**, 307

Neuroendocrine regulation

Dorsomedial hypothalamic nucleus; Lateral hypothalamic area; Ventromedial hypothalamic nucleus; Autonomic regulation; Feeding and thirst regulation; Organismic set point; Neurotransmitter; Excitotoxin lesion; Electrolytic lesion (Bernardis, L.L.) **12**, 321

Neuromuscular junction

Non-uniformity; Frog; Synaptic plasticity; Synaptic transmission; Miniature endplate potential (MEPP); Endplate potential (EPP) (Robitaille, R.) **12**, 95

Neuron

Development; Aging; Estrogen receptor; Cortex; Glia; Sex hormone (Diamond, M.C.) **12**, 235

Neuronal localization of taurine binding/uptake systems

Taurine; Hypothalamic neurotransmitter/neuromodulator; High affinity taurine binding/uptake system; Low affinity taurine binding/uptake system; Taurine release; Glial localization of taurine binding/uptake

systems (Hanretta, A.T.) **12**, 167

Neurotransmitter

Dorsomedial hypothalamic nucleus; Lateral hypothalamic area; Ventromedial hypothalamic nucleus; Neuroendocrine regulation; Autonomic regulation; Feeding and thirst regulation; Organismic set point; Excitotoxin lesion; Electrolytic lesion (Bernardis, L.L.) **12**, 321

NGF mRNA

Nerve growth factor; Central nervous system; Cholinergic neuron; NGF receptor; NGF/behavior; NGF/disease (Whittemore, S.R.) **12**, 439

NGF receptor

Nerve growth factor; Central nervous system; Cholinergic neuron; NGF mRNA; NGF/behavior; NGF/disease (Whittemore, S.R.) **12**, 439

NGF/behavior

Nerve growth factor; Central nervous system; Cholinergic neuron; NGF mRNA; NGF receptor; NGF/disease (Whittemore, S.R.) **12**, 439

NGF/disease

Nerve growth factor; Central nervous system; Cholinergic neuron; NGF mRNA; NGF receptor; NGF/behavior (Whittemore, S.R.) **12**, 439

Non-uniformity

Neuromuscular junction; Frog; Synaptic plasticity; Synaptic transmission; Miniature endplate potential (MEPP); Endplate potential (EPP) (Robitaille, R.) **12**, 95

Noradrenaline

Adrenaline; Colocalization; Hypothalamus; Medulla; Phenylethanolamine-*N*-methyltransferase (PNMT); Postsynaptic metabolism (Mefford, I.N.) **12**, 383

O

Ontogeny

Opioid; Opioid peptide; Opioid receptor; Opioid pharmacology; Antinociception; Perinatal (McDowell, J.) **12**, 397

Opioid

Ontogeny; Opioid peptide; Opioid receptor; Opioid pharmacology; Antinociception; Perinatal (McDowell, J.) **12**, 397

Opioid peptide

Opioid; Ontogeny; Opioid receptor; Opioid pharmacology; Antinociception; Perinatal (McDowell, J.) **12**, 397

Opioid pharmacology

Opioid; Ontogeny; Opioid peptide; Opioid receptor; Antinociception; Perinatal (McDowell, J.) **12**, 397

Opioid receptor

Opioid; Ontogeny; Opioid peptide; Opioid pharmacology; Antinociception; Perinatal (McDowell, J.) **12**, 397

Organismic set point

Dorsomedial hypothalamic nucleus; Lateral hypothalamic area; Ventromedial hypothalamic nucleus; Neuroendocrine regulation; Autonomic regulation; Feeding and thirst regulation; Neurotransmitter; Excitotoxin lesion; Electrolytic lesion (Bernardis, L.L.) **12**, 321

P

Perinatal

Opioid; Ontogeny; Opioid peptide; Opioid receptor; Opioid pharmacology; Antinociception (McDowell, J.) **12**, 397

Phenylethanolamine-*N*-methyltransferase (PNMT)

Adrenaline; Colocalization; Hypothalamus; Medulla; Noradrenaline; Postsynaptic metabolism (Mefford, I.N.) **12**, 383

Pilocarpine

Temporal lobe epilepsy; Seizure; Brain damage; Antiepileptic drug (Turski, W.A.) **12**, 281

Plasticity

Sympathetic; Sprouting; Nerve growth factor (NGF); Hippocampus; Blood vessel; Alzheimer's disease (Crutcher, K.A.) **12**, 203

Functional recovery; Brain damage; Lesion size; Neural reorganization (Irle, E.) **12**, 307

Postsynaptic metabolism

Adrenaline; Colocalization; Hypothalamus; Medulla; Phenylethanolamine-*N*-methyltransferase (PNMT); Noradrenaline (Mefford, I.N.) **12**, 383

R

Roughness discrimination

Somatosensory system; Cerebral

cortex; Shape discrimination;
Kinesthesia; Touch; Mechanoreceptor;
Signal detection (Roland, P.E.) **12**, 1

Somatosensory system; Cerebral
cortex; Cerebral localization; Human
brain; Shape discrimination;
Kinesthesia; Touch; Signal detection
(Roland, P.E.) **12**, 43

S

Seizure

Pilocarpine; Temporal lobe epilepsy;
Brain damage; Antiepileptic drug
(Turski, W.A.) **12**, 281

Sex hormone

Development; Aging; Estrogen
receptor; Cortex; Neuron; Glia
(Diamond, M.C.) **12**, 235

Shape discrimination

Somatosensory system; Cerebral
cortex; Roughness discrimination;
Kinesthesia; Touch; Mechanoreceptor;
Signal detection (Roland, P.E.) **12**, 1

Somatosensory system; Cerebral
cortex; Cerebral localization; Human
brain; Roughness discrimination;
Kinesthesia; Touch; Signal detection
(Roland, P.E.) **12**, 43

Signal detection

Somatosensory system; Cerebral
cortex; Shape discrimination;
Roughness discrimination; Kinesthesia;
Touch; Mechanoreceptor
(Roland, P.E.) **12**, 1

Somatosensory system; Cerebral
cortex; Cerebral localization; Human
brain; Shape discrimination; Roughness
discrimination; Kinesthesia; Touch
(Roland, P.E.) **12**, 43

Somatosensory system

Cerebral cortex; Shape discrimination;
Roughness discrimination; Kinesthesia;
Touch; Mechanoreceptor; Signal
detection (Roland, P.E.) **12**, 1

Cerebral cortex; Cerebral localization;
Human brain; Shape discrimination;

Roughness discrimination; Kinesthesia;
Touch; Signal detection (Roland, P.E.)
12, 43

Spinal nerve

Motoneuron; Axial musculature;
Myomere; Medial motor column;
Vertebrate (Fetcho, J.R.) **12**, 243

Sprouting

Sympathetic; Nerve growth factor
(NGF); Hippocampus; Plasticity; Blood
vessel; Alzheimer's disease
(Crutcher, K.A.) **12**, 203

Substantia nigra A9

Ventral tegmental area A10;
Dopamine; Mesostriatal pathway;
Mesolimbic pathway; Mesocortical
pathway; Limbic system; Neocortex;
Convergence system; Circuit system
(Oades, R.D.) **12**, 117

Sympathetic

Sprouting; Nerve growth factor (NGF);
Hippocampus; Plasticity; Blood vessel;
Alzheimer's disease (Crutcher, K.A.)
12, 203

Synaptic plasticity

Non-uniformity; Neuromuscular
junction; Frog; Synaptic transmission;
Miniature endplate potential (MEPP);
Endplate potential (EPP)
(Robitaille, R.) **12**, 95

Synaptic transmission

Non-uniformity; Neuromuscular
junction; Frog; Synaptic plasticity;
Miniature endplate potential (MEPP);
Endplate potential (EPP)
(Robitaille, R.) **12**, 95

T

Taurine

Hypothalamic
neurotransmitter/neuromodulator; High
affinity taurine binding/uptake system;
Low affinity taurine binding/uptake
system; Taurine release; Neuronal
localization of taurine binding/uptake
systems; Glial localization of taurine
binding/uptake systems

(Hanretta, A.T.) **12**, 167

Taurine release

Taurine; Hypothalamic
neurotransmitter/neuromodulator; High
affinity taurine binding/uptake system;
Low affinity taurine binding/uptake
system; Neuronal localization of taurine
binding/uptake systems; Glial
localization of taurine binding/uptake
systems (Hanretta, A.T.) **12**, 167

Temporal lobe epilepsy

Pilocarpine; Seizure; Brain damage;
Antiepileptic drug (Turski, W.A.)
12, 281

Touch

Somatosensory system; Cerebral
cortex; Shape discrimination;
Roughness discrimination; Kinesthesia;
Mechanoreceptor; Signal detection
(Roland, P.E.) **12**, 1

Somatosensory system; Cerebral
cortex; Cerebral localization; Human
brain; Shape discrimination; Roughness
discrimination; Kinesthesia; Signal
detection (Roland, P.E.) **12**, 43

V

Ventral tegmental area A10

Substantia nigra A9; Dopamine;
Mesostriatal pathway; Mesolimbic
pathway; Mesocortical pathway; Limbic
system; Neocortex; Convergence
system; Circuit system (Oades, R.D.)
12, 117

Ventromedial hypothalamic nucleus

Dorsomedial hypothalamic nucleus;
Lateral hypothalamic area;
Neuroendocrine regulation; Autonomic
regulation; Feeding and thirst
regulation; Organismic set point;
Neurotransmitter; Excitotoxin lesion;
Electrolytic lesion (Bernardis, L.L.)
12, 321

Vertebrate

Motoneuron; Axial musculature;
Myomere; Medial motor column;
Spinal nerve (Fetcho, J.R.) **12**, 243

MOLECULAR BRAIN RESEARCH
AUTHOR INDEX
1987
VOLUME 388 (2)

A

- Adler, J., see La Gamma, E., **2**, 125
 Affolter, H.-U., see Bonner, T.I., **2**, 243
 Anan, M., see Aoshima, H., **2**, 15
 Anan, M., see Aoshima, H., **2**, 263
 Anderson, M.J., Waxman, S.G., Lee, Y.-L. and Eng, L.F.
 Molecular differentiation of neurons from ependyma-derived cells in tissue cultures of regenerating teleost spinal cord, **2**, 131
 Anzai, K., Kobayashi, S., Suehiro, Y. and Goto, S.
 Conservation of the ID* sequence and its expression as small RNA in rodent brains: analysis with cDNA for mouse brain-specific small RNA, **2**, 43
 Aoshima, H., Iio, H., Anan, M., Ishii, H. and Kobayashi, S.
 Induction of muscarinic acetylcholine, serotonin and substance P receptors in *Xenopus* oocytes injected with mRNA prepared from the small intestine of rats, **2**, 15
 Aoshima, H., Ishii, H. and Anan, M.
 Expression of the functional D-glucose transport system in *Xenopus* oocytes injected with mRNA of rat small intestine, **2**, 263
 Araki, K., see Kuwano, R., **2**, 79

B

- Barnard, E., see Van Renterghem, C., **2**, 21
 Basu, S., see Bhattacharya, B., **2**, 159
 Baumgold, J., Merrill, C. and Gershon, E.S.
 Loss of pirenzepine regional selectivity following solubilization and partial purification of the putative M₁ and M₂ muscarinic receptor subtypes, **2**, 7
 Benowitz, L.I., see Neve, R.L., **2**, 176
 Berlove, D.J., see Knigge, K.M., **2**, 69
 Bhattacharya, B., Mandal, C., Basu, S. and Sarkar, P.
 Regulation of α - and β -tubulin mRNAs in rat brain during synaptogenesis, **2**, 159
 Bilbe, G., see Van Renterghem, C., **2**, 21
 Billings-Gagliardi, S., Kerner, A.-L., Kirschner, D.A. and Wolf, M.K.
 Shiverer*jimpy double mutant mice. III. Comparison of *shi^{mld}*jp^{msd}* and *shi*jp* phenotypes demonstrates dissimilar interactions of allelic

- mutations, **2**, 199
 Bird, E., see Neve, R.L., **2**, 176
 Bisby, M., see Reh, T., **2**, 1
 Bonner, T.I., Affolter, H.-U., Young, A.C. and Scott Young III, W.
 A cDNA encoding the precursor of the rat neuropeptide, neurokinin B, **2**, 243
 Bracha, H.S., see Sweetnam, P., **2**, 223
 Brown, D., see Van Renterghem, C., **2**, 21
 Brown, S., see Sweetnam, P., **2**, 223

C

- Chikaraishi, D.M., see Phillips, L.L., **2**, 251
 Cifuentes, F., see Cross, D., **2**, 268
 Cole, G., see Kushner, P., **2**, 271
 Constanti, A., see Van Renterghem, C., **2**, 21
 Coyle, J.T., see Reeves, R.H., **2**, 215
 Cross, D., Cifuentes, F., Huidobro-Toro, J., Vío, C.P. and Inestrosa, N.C.
 Synthesis and expression of functional angiotensin II receptors in *Xenopus* oocytes injected with rat brain mRNA, **2**, 268

D

- Davidson, N., see Mayne, K.M., **2**, 191
 Deguchi, T., see Ishida, I., **2**, 185
 Deguchi, T., Yokoyama, E. and Ichikawa, T.
 Monoclonal antibodies to hydroxyindole O-methyltransferase from bovine pineal gland, **2**, 89
 Devi, L., Douglass, J. and Herbert, E.
 A solution hybridization assay for the quantitation of prodynorphin mRNA, **2**, 173
 Douglass, J., see Devi, L., **2**, 173
 Duman, R., see Sweetnam, P., **2**, 223

E

- Eng, L.F., see Anderson, M.J., **2**, 131

F

- Finklestein, S., see Neve, R.L., **2**, 176
 Fishman, M.C., see Summerhill, E.M., **2**, 99
 Futerman, A.H., Raviv, D., Michaelson, D.M. and Silman, I.
 Differential susceptibility to phosphatidylinositol-specific phospholipase C of acetylcholinesterase in excitable tissues of embryonic and adult *Torpedo ocellata*, **2**, 105

G

- Gallombardo, P., see Sweetnam, P., **2**, 223
 Gearhart, J.D., see Reeves, R.H., **2**, 215
 Gershon, E.S., see Baumgold, J., **2**, 7
 Goto, S., see Anzai, K., **2**, 43
 Gozes, I., Shani, Y. and Rostène, W.H.
 Developmental expression of the VIP-gene in brain and intestine, **2**, 137
 Grundke-Iqbal, I., see Iqbal, K., **2**, 163
 Guyenet, P.G., see Lynch, K.R., **2**, 149

H

- Harlan, R.E., see Romano, G.J., **2**, 33
 Hawelu-Johnson, C.L., see Lynch, K.R., **2**, 149
 Heinrich, G., see Quarless, S.A., **2**, 235
 Herbert, E., see Devi, L., **2**, 173
 Howells, R.D., see Romano, G.J., **2**, 33
 Huidobro-Toro, J., see Cross, D., **2**, 268

I

- Ichikawa, T., see Deguchi, T., **2**, 89
 Iio, H., see Aoshima, H., **2**, 15
 Inestrosa, N.C., see Cross, D., **2**, 268
 Iqbal, K., Grundke-Iqbal, I., Merz, P., Wisniewski, H. and Zaidi, T.

- In vitro assembly and isolation of neurofilaments and microtubules from mammalian CNS, **2**, 163
- Ishida, I., Ohsako, S., Nakane, M. and Deguchi, T.
Expression and characterization of hydroxyindole *O*-methyltransferase from a cloned cDNA in Chinese hamster ovary cells, **2**, 185
- Ishii, H., see Aoshima, H., **2**, 15
- Ishii, H., see Aoshima, H., **2**, 263

J

- Junig, J.T., see Knigge, K.M., **2**, 69

K

- Kaneko, S., see Nomura, Y., **2**, 113
- Kato, K., see Nomura, Y., **2**, 113
- Kerner, A.-L., see
Billings-Gagliardi, S., **2**, 199
- Kirschner, D.A., see
Billings-Gagliardi, S., **2**, 199
- Knigge, K.M., Piekut, D.T.,
Berlove, D.J., Junig, J.T. and
Melrose, P.A.
Staining of magnocellular neurons of the supraoptic and paraventricular nuclei with vasopressin anti-idiotypic antibody: a potential method for receptor immunocytochemistry, **2**, 69
- Kobayashi, S., see Anzai, K., **2**, 43
- Kobayashi, S., see Aoshima, H., **2**, 15
- Kurihara, T., see Kuwano, R., **2**, 79
- Kurnit, D.M., see Neve, R.L., **2**, 176
- Kushner, P., Cole, G., Sternberg, H. and Woloshin, P.
A human teratocarcinoma which expresses a rare neuronal cell surface antigen, **2**, 271
- Kuwano, R., Usui, H., Maeda, T., Araki, K., Yamakuni, T., Kurihara, T. and Takahashi, Y.
Tissue distribution of rat S-100 α and β subunit mRNAs, **2**, 79
- Glucocorticoids regulate adrenal opiate peptides, **2**, 125
- Leblanc, A.C., Poduslo, J.F. and Mezei, C.
Gene expression in the presence or absence of myelin assembly, **2**, 57
- Lee, Y.-L., see Anderson, M.J., **2**, 131
- Lester, H.A., see Mayne, K.M., **2**, 191
- Lynch, K.R., Hawelu-Johnson, C.L. and Guyenet, P.G.
Localization of brain angiotensinogen mRNA by hybridization histochemistry, **2**, 149

L

- La Gamma, E. and Adler, J.

M

- Maeda, T., see Kuwano, R., **2**, 79
- Mandal, C., see Bhattacharya, B., **2**, 159
- Mayne, K.M., Yoshii, K., Yu, L., Lester, H.A. and Davidson, N.
Expression of mouse-*Torpedo* acetylcholine receptor subunit chimeras and hybrids in *Xenopus* oocytes, **2**, 191
- Melrose, P.A., see Knigge, K.M., **2**, 69
- Merril, C., see Baumgold, J., **2**, 7
- Merz, P., see Iqbal, K., **2**, 163
- Mezei, C., see Leblanc, A.C., **2**, 57
- Michaelson, D.M., see
Futerman, A.H., **2**, 105
- Moss, S., see Van Renterghem, C., **2**, 21

N

- Nakane, M., see Ishida, I., **2**, 185
- Nestler, E., see Sweetnam, P., **2**, 223
- Neumann, P.E. and Taketa, F.
Effects of triethyltin bromide on protein phosphorylation in subcellular fractions from rat and rabbit brain, **2**, 83
- Neve, R.L., Perrone-Bizzozero, N., Finklestein, S., Zwiers, H., Bird, E., Kurnit, D.M. and Benowitz, L.I.
The neuronal growth-associated protein GAP-43 (B-50, F1): neuronal specificity, developmental regulation and regional distribution of the human and rat mRNAs, **2**, 176
- Nomura, Y., Kaneko, S., Kato, K., Yamagishi, S. and Sugiyama, H.
Inositol phosphate formation and chloride current responses induced by acetylcholine and serotonin

- through GTP-binding proteins in *Xenopus* oocyte after injection of rat brain messenger RNA, **2**, 113
- Nostrandt, S.J., see Phillips, L.L., **2**, 251

O

- Ohsako, S., see Ishida, I., **2**, 185
- Oster-Granite, M., see Reeves, R.H., **2**, 215

P

- Perrone-Bizzozero, N., see
Neve, R.L., **2**, 176
- Pfaff, D.W., see Romano, G.J., **2**, 33
- Phillips, L.L., Nostrandt, S.J., Chikaraishi, D.M. and Steward, O.
Increases in ribosomal RNA within the denervated neuropil of the dentate gyrus during reinnervation: evaluation by in situ hybridization using DNA probes complementary to ribosomal RNA, **2**, 251
- Piekut, D.T., see Knigge, K.M., **2**, 69
- Poduslo, J.F., see Leblanc, A.C., **2**, 57

Q

- Quarless, S.A. and Heinrich, G.
Regulation of nerve growth factor gene expression in primary brain monolayer cultures: effects of dibutyl cyclic AMP and sodium butyrate, **2**, 235

R

- Raviv, D., see Futerman, A.H., **2**, 105
- Redshaw, J., see Reh, T., **2**, 1
- Reeves, R.H., Robakis, N.K., Oster-Granite, M., Wisniewski, H.M., Coyle, J.T. and

- Gearhart, J.D.
Genetic linkage in the mouse of genes involved in Down syndrome and Alzheimer's disease in man, **2**, 215
- Reh, T., Redshaw, J. and Bisby, M.
Axons of the pyramidal tract do not increase their transport of growth-associated proteins after axotomy, **2**, 1
- Robakis, N.K., see Reeves, R.H., **2**, 215
- Romano, G.J., Shivers, B.D., Harlan, R.E., Howells, R.D. and Pfaff, D.W.
Haloperidol increases proenkephalin mRNA levels in the caudate-putamen of the rat: a quantitative study at the cellular level using in situ hybridization, **2**, 33
- Rostène, W.H., see Gozes, I., **2**, 137
- Ruppert, C. and Wille, W.
Proto-oncogene *c-fos* is highly induced by disruption of neonatal but not of mature brain tissue, **2**, 51
- S
- Sarkar, P., see Bhattacharya, B., **2**, 159
- Scott Young III, W., see Bonner, T.I., **2**, 243
- Shani, Y., see Gozes, I., **2**, 137
- Shivers, B.D., see Romano, G.J., **2**, 33
- Silman, I., see Futerman, A.H., **2**, 105
- Smart, T., see Van Renterghem, C., **2**, 21
- Sternberg, H., see Kushner, P., **2**, 271
- Steward, O., see Phillips, L.L., **2**, 251
- Suehiro, Y., see Anzai, K., **2**, 43

- Sugiyama, H., see Nomura, Y., **2**, 113
- Summerhill, E.M., Wood, K. and Fishman, M.C.
Regulation of tyrosine hydroxylase gene expression during differentiation of neuroblastoma cells, **2**, 99
- Sweetnam, P., Nestler, E., Gallombardo, P., Brown, S., Duman, R., Bracha, H.S. and Tallman, J.
Comparison of the molecular structure of GABA/benzodiazepine receptors purified from rat and human cerebellum, **2**, 223

T

- Takahashi, Y., see Kuwano, R., **2**, 79
- Taketa, F., see Neumann, P.E., **2**, 83
- Tallman, J., see Sweetnam, P., **2**, 223

U

- Usui, H., see Kuwano, R., **2**, 79

V

- Van Renterghem, C., Bilbe, G., Moss, S., Smart, T., Constanti, A., Brown, D. and Barnard, E.
GABA receptors induced in *Xenopus* oocytes by chick brain mRNA: evaluation of TBPS as a use-dependent channel-blocker, **2**, 21
- Vío, C.P., see Cross, D., **2**, 268

W

- Waxman, S.G., see Anderson, M.J., **2**, 131
- Wille, W., see Ruppert, C., **2**, 51
- Wisniewski, H., see Iqbal, K., **2**, 163
- Wisniewski, H.M., see Reeves, R.H., **2**, 215
- Wolf, M.K., see Billings-Gagliardi, S., **2**, 199
- Woloshin, P., see Kushner, P., **2**, 271
- Wood, K., see Summerhill, E.M., **2**, 99

Y

- Yamagishi, S., see Nomura, Y., **2**, 113
- Yamakuni, T., see Kuwano, R., **2**, 79
- Yokoyama, E., see Deguchi, T., **2**, 89
- Yoshii, K., see Mayne, K.M., **2**, 191
- Young, A.C., see Bonner, T.I., **2**, 243
- Yu, L., see Mayne, K.M., **2**, 191

Z

- Zaidi, T., see Iqbal, K., **2**, 163
- Zwiers, H., see Neve, R.L., **2**, 176

MOLECULAR BRAIN RESEARCH
SUBJECT INDEX
1987
VOLUME 388 (2)

A

Acetylcholine receptor

Microinjection; mRNA; Serotonin receptor; Small intestine; Substance P; *Xenopus* oocyte (Aoshima, H.) **2**, 15

Acetylcholinesterase

Phosphatidylinositol-specific phospholipase C; Electromotor system; *Torpedo* (Futerman, A.H.) **2**, 105

Adrenal medulla

Glucocorticoid; Enkephalin; Opiate peptide; Catecholamine (La Gamma, E.) **2**, 125

Affinity chromatography

GABA/benzodiazepine receptor; Photolabeling; Cerebellum; Monoclonal antibody; Glycosylation (Sweetnam, P.) **2**, 223

Muscarinic receptor; Receptor subtype; Pirenzepine; Receptor solubilization (Baumgold, J.) **2**, 7

Alzheimer's disease

Down syndrome; Trisomy 16 mouse; Amyloid; Gene mapping (Reeves, R.H.) **2**, 215

 γ -Aminobutyric acid (GABA)

t-Butylbicyclophosphorothionate (TBPS); Use-dependent block; *Xenopus* oocyte (Van Renterghem, C.) **2**, 21

Amyloid

Alzheimer's disease; Down syndrome; Trisomy 16 mouse; Gene mapping (Reeves, R.H.) **2**, 215

Angiotensin II receptor

Xenopus laevis oocyte; Microinjection; Brain mRNA; Saralasin (Cross, D.) **2**, 268

Angiotensinogen mRNA

Central angiotensin system; Hybridization histochemistry (in situ hybridization) (Lynch, K.R.) **2**, 149

Anti-idiotypic antibody

Vasopressin; Receptor staining; Vasopressin binding protein (Knigge, K.M.) **2**, 69

Axotomy

Regeneration; Fast axonal transport; Growth-associated proteins; Sciatic nerve; Pyramidal tract (Reh, T.) **2**, 1

B

B-50

GAP-43; F1; Synaptic modulation; Neuronal growth; Lambda gt11

expression library (Neve, R.L.) **2**, 176

Brain damage

Cerebellum; Development; *C-fos* mRNA; Induction; Proto-oncogene (Ruppert, C.) **2**, 51

Brain development

Tubulin mRNA; Synaptogenesis; Neurotubule; Gene expression (Bhattacharya, B.) **2**, 159

Brain messenger RNA

Muscarinic M_1 receptor; Serotonergic S_1 receptor; GTP-binding protein; Inositol phosphate; Cyclic AMP; Calcium; Ion channel; *Xenopus* oocyte (Nomura, Y.) **2**, 113

Angiotensin II receptor; *Xenopus laevis* oocyte; Microinjection; Saralasin (Cross, D.) **2**, 268

Brain protein phosphorylation

Triethyltin bromide; Pyruvate dehydrogenase; Synapsin (Neumann, P.E.) **2**, 83

Brain-specific small RNA

Mouse cDNA clone; Nucleotide sequence analysis; Copy number; Dot blot analysis; Northern blot hybridization (Anzai, K.) **2**, 43

***t*-Butylbicyclophosphorothionate (TBPS)**

γ -Aminobutyric acid (GABA); Use-dependent block; *Xenopus* oocyte (Van Renterghem, C.) **2**, 21

C

***c-fos* mRNA**

Brain damage; Cerebellum; Development; Induction; Proto-oncogene (Ruppert, C.) **2**, 51

Calcium

Muscarinic M_1 receptor; Serotonergic S_1 receptor; GTP-binding protein; Inositol phosphate; Cyclic AMP; Ion channel; *Xenopus* oocyte; Brain messenger RNA (Nomura, Y.) **2**, 113

Catecholamine

Glucocorticoid; Enkephalin; Opiate peptide; Adrenal medulla (La Gamma, E.) **2**, 125

Caudate-putamen

Proenkephalin; mRNA; Haloperidol; In situ hybridization; Dopamine; Opioid peptide (Romano, G.J.) **2**, 33

cDNA

S-100 protein; mRNA; Tissue distribution; Southern/Northern blot hybridization (Kuwano, R.) **2**, 79

Central angiotensin system

Angiotensinogen mRNA; Hybridization histochemistry (in situ hybridization) (Lynch, K.R.) **2**, 149

Cerebellum

GABA/benzodiazepine receptor; Photolabeling; Affinity chromatography; Monoclonal antibody; Glycosylation (Sweetnam, P.) **2**, 223

Brain damage; Development; *C-fos* mRNA; Induction; Proto-oncogene (Ruppert, C.) **2**, 51

Copy number

Brain-specific small RNA; Mouse cDNA clone; Nucleotide sequence analysis; Dot blot analysis; Northern blot hybridization (Anzai, K.) **2**, 43

Cyclic AMP

Muscarinic M_1 receptor; Serotonergic S_1 receptor; GTP-binding protein; Inositol phosphate; Calcium; Ion channel; *Xenopus* oocyte; Brain messenger RNA (Nomura, Y.) **2**, 113

D

Dentate gyrus

In situ hybridization; Ribosomal RNA (Phillips, L.L.) **2**, 251

Development

Brain damage; Cerebellum; *C-fos* mRNA; Induction; Proto-oncogene (Ruppert, C.) **2**, 51

Dopamine

Proenkephalin; mRNA; Haloperidol; In situ hybridization; Caudate-putamen; Opioid peptide (Romano, G.J.) **2**, 33

Dot blot analysis

Brain-specific small RNA; Mouse cDNA clone; Nucleotide sequence analysis; Copy number; Northern blot hybridization (Anzai, K.) **2**, 43

Down syndrome

Alzheimer's disease; Trisomy 16 mouse; Amyloid; Gene mapping (Reeves, R.H.) **2**, 215

Dynorphin

Neuropeptide; Opioid; Riboprobe; Peptide hormone (Devi, L.) **2**, 173

E

Electromotor system

Acetylcholinesterase;

Phosphatidylinositol-specific phospholipase C; *Torpedo* (Futerman, A.H.) **2**, 105

Enkephalin

Glucocorticoid; Opiate peptide; Catecholamine; Adrenal medulla (La Gamma, E.) **2**, 125

Ependyma

Neuron; Spinal cord; Regeneration; Tissue-culture; Monoclonal antibody (Anderson, M.J.) **2**, 131

Expression vector

Hydroxyindole *O*-methyltransferase; Melatonin; Pineal; Recombinant DNA (Ishida, I.) **2**, 185

F

F1

GAP-43; B-50; Synaptic modulation; Neuronal growth; Lambda gt11 expression library (Neve, R.L.) **2**, 176

Fast axonal transport

Axotomy; Regeneration; Growth-associated proteins; Sciatic nerve; Pyramidal tract (Reh, T.) **2**, 1

G

GABA/benzodiazepine receptor

Photolabeling; Affinity chromatography; Cerebellum; Monoclonal antibody; Glycosylation (Sweetnam, P.) **2**, 223

GAP-43

B-50; F1; Synaptic modulation; Neuronal growth; Lambda gt11 expression library (Neve, R.L.) **2**, 176

Gene expression

Tubulin mRNA; Synaptogenesis; Brain development; Neurotubule (Bhattacharya, B.) **2**, 159

Myelination; P₀ protein; Myelin basic protein (MBP); Regeneration; mRNA level; Schwann cell (Leblanc, A.C.) **2**, 57

Gene interaction

Shiverer; Jimpy; Myelin deficient; Myelin synthesis deficiency; Myelin (Billings-Gagliardi, S.) **2**, 199

Gene mapping

Alzheimer's disease; Down syndrome;

Trisomy 16 mouse; Amyloid (Reeves, R.H.) **2**, 215

Glucocorticoid

Enkephalin; Opiate peptide; Catecholamine; Adrenal medulla (La Gamma, E.) **2**, 125

D-Glucose transport

Xenopus oocyte; Injection of mRNA; Small intestine; In vivo translation (Aoshima, H.) **2**, 263

Glycosylation

GABA/benzodiazepine receptor; Photolabeling; Affinity chromatography; Cerebellum; Monoclonal antibody (Sweetnam, P.) **2**, 223

Growth-associated proteins

Axotomy; Regeneration; Fast axonal transport; Sciatic nerve; Pyramidal tract (Reh, T.) **2**, 1

GTP-binding protein

Muscarinic M₁ receptor; Serotonergic S₁ receptor; Inositol phosphate; Cyclic AMP; Calcium; Ion channel; *Xenopus* oocyte; Brain messenger RNA (Nomura, Y.) **2**, 113

H

Haloperidol

Proenkephalin; mRNA; In situ hybridization; Caudate-putamen; Dopamine; Opioid peptide (Romano, G.J.) **2**, 33

Human teratocarcinoma

Tor 23; NTERA-2; Neuronal cell surface antigen (Kushner, P.) **2**, 271

Hybridization histochemistry (in situ hybridization)

Central angiotensin system; Angiotensinogen mRNA (Lynch, K.R.) **2**, 149

Hydroxyindole-*O*-methyltransferase

Pineal gland; Melatonin; Monoclonal antibody; Immunoaffinity; Immunohistochemistry (Deguchi, T.) **2**, 89

Melatonin; Pineal; Recombinant DNA; Expression vector (Ishida, I.) **2**, 185

I

Immunoaffinity

Pineal gland; Melatonin; Hydroxyindole-*O*-methyltransferase;

Monoclonal antibody; Immunohistochemistry (Deguchi, T.) **2**, 89

Immunohistochemistry

Pineal gland; Melatonin; Hydroxyindole-*O*-methyltransferase; Monoclonal antibody; Immunoaffinity (Deguchi, T.) **2**, 89

In situ hybridization

Ribosomal RNA; Dentate gyrus (Phillips, L.L.) **2**, 251

Proenkephalin; mRNA; Haloperidol; Caudate-putamen; Dopamine; Opioid peptide (Romano, G.J.) **2**, 33

In situ hybridization histochemistry

Neuromedin K; Tachykinin; Substance P (Bonner, T.I.) **2**, 243

In vitro transcription

Ion channel (Mayne, K.M.) **2**, 191

In vivo translation

Xenopus oocyte; Injection of mRNA; D-Glucose transport; Small intestine (Aoshima, H.) **2**, 263

Induction

Brain damage; Cerebellum; Development; *C-fos* mRNA; Proto-oncogene (Ruppert, C.) **2**, 51

Injection of mRNA

Xenopus oocyte; D-Glucose transport; Small intestine; In vivo translation (Aoshima, H.) **2**, 263

Inositol phosphate

Muscarinic M₁ receptor; Serotonergic S₁ receptor; GTP-binding protein; Cyclic AMP; Calcium; Ion channel; *Xenopus* oocyte; Brain messenger RNA (Nomura, Y.) **2**, 113

Intermediate filament

Neurofilament; Microtubule; Neurofilament assembly; Microtubule assembly; Neurofilament protein; Tubulin (Iqbal, K.) **2**, 163

Ion channel

Muscarinic M₁ receptor; Serotonergic S₁ receptor; GTP-binding protein; Inositol phosphate; Cyclic AMP; Calcium; *Xenopus* oocyte; Brain messenger RNA (Nomura, Y.) **2**, 113

In vitro transcription (Mayne, K.M.) **2**, 191

J

Jimpy

Shiverer; Myelin deficient; Myelin synthesis deficiency; Gene interaction; Myelin (Billings-Gagliardi, S.) **2**, 199

L

Lambda gt11 expression library

GAP-43; B-50; F1; Synaptic modulation; Neuronal growth (Neve, R.L.) **2**, 176

M

Melatonin

Hydroxyindole *O*-methyltransferase; Pineal; Recombinant DNA; Expression vector (Ishida, I.) **2**, 185

Pineal gland; Hydroxyindole-*O*-methyltransferase; Monoclonal antibody; Immunoaffinity; Immunohistochemistry (Deguchi, T.) **2**, 89

Microinjection

Acetylcholine receptor; mRNA; Serotonin receptor; Small intestine; Substance P; *Xenopus* oocyte (Aoshima, H.) **2**, 15

Angiotensin II receptor; *Xenopus laevis* oocyte; Brain mRNA; Saralasin (Cross, D.) **2**, 268

Microtubule

Neurofilament: Intermediate filament; Neurofilament assembly; Microtubule assembly; Neurofilament protein; Tubulin (Iqbal, K.) **2**, 163

Microtubule assembly

Neurofilament; Intermediate filament; Microtubule; Neurofilament assembly; Neurofilament protein; Tubulin (Iqbal, K.) **2**, 163

Monoclonal antibody

Neuron; Ependyma; Spinal cord; Regeneration; Tissue-culture (Anderson, M.J.) **2**, 131

GABA/benzodiazepine receptor; Photolabeling; Affinity chromatography; Cerebellum; Glycosylation (Sweetnam, P.) **2**, 223

Pineal gland; Melatonin; Hydroxyindole-*O*-methyltransferase; Immunoaffinity; Immunohistochemistry (Deguchi, T.) **2**, 89

Mouse cDNA clone

Brain-specific small RNA; Nucleotide sequence analysis; Copy number; Dot blot analysis; Northern blot hybridization (Anzai, K.) **2**, 43

mRNA

Acetylcholine receptor; Microinjection; Serotonin receptor; Small intestine;

Substance P; *Xenopus* oocyte (Aoshima, H.) **2**, 15

Proenkephalin; Haloperidol; In situ hybridization; Caudate-putamen; Dopamine; Opioid peptide (Romano, G.J.) **2**, 33

S-100 protein; CDNA; Tissue distribution; Southern/Northern blot hybridization (Kuwano, R.) **2**, 79

Tyrosine hydroxylase; Transcription (Summerhill, E.M.) **2**, 99

MRNA level

Myelination; P₀ protein; Myelin basic protein (MBP); Regeneration; Gene expression; Schwann cell (Leblanc, A.C.) **2**, 57

Muscarinic M₁ receptor

Serotonergic S₁ receptor; GTP-binding protein; Inositol phosphate; Cyclic AMP; Calcium; Ion channel; *Xenopus* oocyte; Brain messenger RNA (Nomura, Y.) **2**, 113

Muscarinic receptor

Receptor subtype; Pirenzepine; Receptor solubilization; Affinity chromatography (Baumgold, J.) **2**, 7

Myelin

Shiverer; Jimpy; Myelin deficient; Myelin synthesis deficiency; Gene interaction (Billings-Gagliardi, S.) **2**, 199

Myelin basic protein (MBP)

Myelination; P₀ protein; Regeneration; MRNA level; Gene expression; Schwann cell (Leblanc, A.C.) **2**, 57

Myelin deficient

Shiverer; Jimpy; Myelin synthesis deficiency; Gene interaction; Myelin (Billings-Gagliardi, S.) **2**, 199

Myelin synthesis deficiency

Shiverer; Jimpy; Myelin deficient; Gene interaction; Myelin (Billings-Gagliardi, S.) **2**, 199

Myelination

P₀ protein; Myelin basic protein (MBP); Regeneration; MRNA level; Gene expression; Schwann cell (Leblanc, A.C.) **2**, 57

N

Neurofilament

Intermediate filament; Microtubule; Neurofilament assembly; Microtubule assembly; Neurofilament protein; Tubulin (Iqbal, K.) **2**, 163

Neurofilament assembly

Neurofilament; Intermediate filament;

Microtubule; Microtubule assembly; Neurofilament protein; Tubulin (Iqbal, K.) **2**, 163

Neurofilament protein

Neurofilament; Intermediate filament; Microtubule; Neurofilament assembly; Microtubule assembly; Tubulin (Iqbal, K.) **2**, 163

Neuromedin K

Tachykinin; In situ hybridization histochemistry; Substance P (Bonner, T.I.) **2**, 243

Neuron

Ependyma; Spinal cord; Regeneration; Tissue-culture; Monoclonal antibody (Anderson, M.J.) **2**, 131

Neuronal cell surface antigen

Tor 23; NTERA-2; Human teratocarcinoma (Kushner, P.) **2**, 271

Neuronal growth

GAP-43; B-50; F1; Synaptic modulation; Lambda gt11 expression library (Neve, R.L.) **2**, 176

Neuropeptide

Opioid; Dynorphin; Riboprobe; Peptide hormone (Devi, L.) **2**, 173

Neurotubule

Tubulin mRNA; Synaptogenesis; Brain development; Gene expression (Bhattacharya, B.) **2**, 159

NGF gene expression

Primary brain culture; Sodium butyrate effect on gene expression (Quarless, S.A.) **2**, 235

Northern blot hybridization

Brain-specific small RNA; Mouse cDNA clone; Nucleotide sequence analysis; Copy number; Dot blot analysis (Anzai, K.) **2**, 43

NTERA-2

Tor 23; Human teratocarcinoma; Neuronal cell surface antigen (Kushner, P.) **2**, 271

Nucleotide sequence analysis

Brain-specific small RNA; Mouse cDNA clone; Copy number; Dot blot analysis; Northern blot hybridization (Anzai, K.) **2**, 43

O

Opiate peptide

Glucocorticoid; Enkephalin; Catecholamine; Adrenal medulla (La Gamma, E.) **2**, 125

Opioid

Neuropeptide; Dynorphin; Riboprobe; Peptide hormone (Devi, L.) **2**, 173

Opioid peptide

Proenkephalin; MRNA; Haloperidol;
In situ hybridization;
Caudate-putamen; Dopamine
(Romano, G.J.) 2, 33

P**P₀ protein**

Myelination; Myelin basic protein
(MBP); Regeneration; MRNA level;
Gene expression; Schwann cell
(Leblanc, A.C.) 2, 57

Peptide histidine methionine-amide (PHM)

Rat cerebral cortex; RNA hybridization
probes (riboprobes); RNA blot
hybridization; Vasoactive intestinal
peptide (VIP) (Gozes, I.) 2, 137

Peptide hormone

Neuropeptide; Opioid; Dynorphin;
Riboprobe (Devi, L.) 2, 173

Phosphatidylinositol-specific phospholipase C

Acetylcholinesterase; Electromotor
system; *Torpedo* (Futerman, A.H.)
2, 105

Photolabeling

GABA/benzodiazepine receptor;
Affinity chromatography; Cerebellum;
Monoclonal antibody; Glycosylation
(Sweetnam, P.) 2, 223

Pineal

Hydroxyindole *O*-methyltransferase;
Melatonin; Recombinant DNA;
Expression vector (Ishida, I.) 2, 185

Pineal gland

Melatonin;
Hydroxyindole-*O*-methyltransferase;
Monoclonal antibody; Immunoaffinity;
Immunohistochemistry (Deguchi, T.)
2, 89

Pirenzepine

Muscarinic receptor; Receptor subtype;
Receptor solubilization; Affinity
chromatography (Baumgold, J.) 2, 7

Primary brain culture

NGF gene expression; Sodium butyrate
effect on gene expression
(Quarless, S.A.) 2, 235

Proenkephalin

MRNA; Haloperidol; In situ
hybridization; Caudate-putamen;
Dopamine; Opioid peptide
(Romano, G.J.) 2, 33

Proto-oncogene

Brain damage; Cerebellum;
Development; *C-fos* mRNA; Induction
(Ruppert, C.) 2, 51

Pyramidal tract

Axotomy; Regeneration; Fast axonal
transport; Growth-associated proteins;
Sciatic nerve (Reh, T.) 2, 1

Pyruvate dehydrogenase

Triethyltin bromide; Brain protein
phosphorylation; Synapsin
(Neumann, P.E.) 2, 83

R**Rat cerebral cortex**

Peptide histidine methionine-amide
(PHM); RNA hybridization probes
(riboprobes); RNA blot hybridization;
Vasoactive intestinal peptide (VIP)
(Gozes, I.) 2, 137

Receptor solubilization

Muscarinic receptor; Receptor subtype;
Pirenzepine; Affinity chromatography
(Baumgold, J.) 2, 7

Receptor staining

Vasopressin; Anti-idiotypic antibody;
Vasopressin binding protein
(Knigge, K.M.) 2, 69

Receptor subtype

Muscarinic receptor; Pirenzepine;
Receptor solubilization; Affinity
chromatography (Baumgold, J.) 2, 7

Recombinant DNA

Hydroxyindole *O*-methyltransferase;
Melatonin; Pineal; Expression vector
(Ishida, I.) 2, 185

Regeneration

Axotomy; Fast axonal transport;
Growth-associated proteins; Sciatic
nerve; Pyramidal tract (Reh, T.) 2, 1

Neuron; Ependyma; Spinal cord;
Tissue-culture; Monoclonal antibody
(Anderson, M.J.) 2, 131

Myelination; P₀ protein; Myelin basic
protein (MBP); MRNA level; Gene
expression; Schwann cell
(Leblanc, A.C.) 2, 57

Riboprobe

Neuropeptide; Opioid; Dynorphin;
Peptide hormone (Devi, L.) 2, 173

Ribosomal RNA

In situ hybridization; Dentate gyrus
(Phillips, L.L.) 2, 251

RNA blot hybridization

Peptide histidine methionine-amide
(PHM); Rat cerebral cortex; RNA
hybridization probes (riboprobes);
Vasoactive intestinal peptide (VIP)
(Gozes, I.) 2, 137

RNA hybridization probes (riboprobes)

Peptide histidine methionine-amide
(PHM); Rat cerebral cortex; RNA blot

hybridization; Vasoactive intestinal
peptide (VIP) (Gozes, I.) 2, 137

S**S-100 protein**

MRNA; CDNA; Tissue distribution;
Southern/Northern blot hybridization
(Kuwano, R.) 2, 79

Saralasin

Angiotensin II receptor; *Xenopus laevis*
oocyte; Microinjection; Brain mRNA
(Cross, D.) 2, 268

Schwann cell

Myelination; P₀ protein; Myelin basic
protein (MBP); Regeneration; MRNA
level; Gene expression (Leblanc, A.C.)
2, 57

Sciatic nerve

Axotomy; Regeneration; Fast axonal
transport; Growth-associated proteins;
Pyramidal tract (Reh, T.) 2, 1

Serotonergic S₁ receptor

Muscarinic M₁ receptor; GTP-binding
protein; Inositol phosphate; Cyclic
AMP; Calcium; Ion channel; *Xenopus*
oocyte; Brain messenger RNA
(Nomura, Y.) 2, 113

Serotonin receptor

Acetylcholine receptor; Microinjection;
MRNA; Small intestine; Substance P;
Xenopus oocyte (Aoshima, H.) 2, 15

Shiverer

Jimmy; Myelin deficient; Myelin
synthesis deficiency; Gene interaction;
Myelin (Billings-Gagliardi, S.) 2, 199

Small intestine

Acetylcholine receptor; Microinjection;
MRNA; Serotonin receptor; Substance
P; *Xenopus* oocyte (Aoshima, H.) 2, 15

Xenopus oocyte; Injection of mRNA;
D-Glucose transport; In vivo translation
(Aoshima, H.) 2, 263

Sodium butyrate effect on gene expression

Primary brain culture; NGF gene
expression (Quarless, S.A.) 2, 235

Southern/Northern blot hybridization

S-100 protein; MRNA; CDNA; Tissue
distribution (Kuwano, R.) 2, 79

Spinal cord

Neuron; Ependyma; Regeneration;
Tissue-culture; Monoclonal antibody
(Anderson, M.J.) 2, 131

Substance P

Acetylcholine receptor; Microinjection;
MRNA; Serotonin receptor; Small

intestine; *Xenopus* oocyte
(Aoshima, H.) **2**, 15

Neuromedin K; Tachykinin; In situ
hybridization histochemistry
(Bonner, T.I.) **2**, 243

Synapsin

Triethyltin bromide; Brain protein
phosphorylation; Pyruvate
dehydrogenase (Neumann, P.E.) **2**, 83

Synaptic modulation

GAP-43; B-50; F1; Neuronal growth;
Lambda gt11 expression library
(Neve, R.L.) **2**, 176

Synaptogenesis

Tubulin mRNA; Brain development;
Neurotubule; Gene expression
(Bhattacharya, B.) **2**, 159

T

Tachykinin

Neuromedin K; In situ hybridization
histochemistry; Substance P
(Bonner, T.I.) **2**, 243

Tissue distribution

100 protein; MRNA; CDNA;
Southern/Northern blot hybridization
(Kuwano, R.) **2**, 79

Tissue-culture

Neuron; Ependyma; Spinal cord;
Regeneration; Monoclonal antibody
(Anderson, M.J.) **2**, 131

Tor 23

HTERA-2; Human teratocarcinoma;
Neuronal cell surface antigen
(Kushner, P.) **2**, 271

Torpedo

Acetylcholinesterase;
Phosphatidylinositol-specific

phospholipase C; Electromotor system
(Futerman, A.H.) **2**, 105

Transcription

Tyrosine hydroxylase; MRNA
(Summerhill, E.M.) **2**, 99

Triethyltin bromide

Brain protein phosphorylation;
Pyruvate dehydrogenase; Synapsin
(Neumann, P.E.) **2**, 83

Trisomy 16 mouse

Alzheimer's disease; Down syndrome;
Amyloid; Gene mapping
(Reeves, R.H.) **2**, 215

Tubulin

Neurofilament; Intermediate filament;
Microtubule; Neurofilament assembly;
Microtubule assembly; Neurofilament
protein (Iqbal, K.) **2**, 163

Tubulin mRNA

Synaptogenesis; Brain development;
Neurotubule; Gene expression
(Bhattacharya, B.) **2**, 159

Tyrosine hydroxylase

MRNA; Transcription
(Summerhill, E.M.) **2**, 99

U

Use-dependent block

γ -Aminobutyric acid (GABA);
t-Butylbicyclophosphorothionate
(TBPS); *Xenopus* oocyte (Van
Renterghem, C.) **2**, 21

V

Vasoactive intestinal peptide (VIP)

Peptide histidine methionine-amide
(PHM); Rat cerebral cortex; RNA
hybridization probes (riboprobes);
RNA blot hybridization (Gozes, I.)
2, 137

Vasopressin

Anti-idiotypic antibody; Receptor
staining; Vasopressin binding protein
(Knigge, K.M.) **2**, 69

Vasopressin binding protein

Vasopressin; Anti-idiotypic antibody;
Receptor staining (Knigge, K.M.) **2**, 69

X

Xenopus laevis oocyte

Angiotensin II receptor;
Microinjection; Brain mRNA;
Saralasin (Cross, D.) **2**, 268

Xenopus oocyte

Muscarinic M₁ receptor; Serotonergic
S₁ receptor; GTP-binding protein;
Inositol phosphate; Cyclic AMP;
Calcium; Ion channel; Brain messenger
RNA (Nomura, Y.) **2**, 113

Acetylcholine receptor; Microinjection;
MRNA; Serotonin receptor; Small
intestine; Substance P (Aoshima, H.)
2, 15

γ -Aminobutyric acid (GABA);

t-Butylbicyclophosphorothionate
(TBPS); Use-dependent block (Van
Renterghem, C.) **2**, 21

Injection of mRNA; D-Glucose
transport; Small intestine; In vivo
translation (Aoshima, H.) **2**, 263

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